

Mauro Sambi

List of Publications by Year in descending order

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92
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#	ARTICLE	IF	CITATIONS
1	Role and effective treatment of dispersive forces in materials: Polyethylene and graphite crystals as test cases. <i>Journal of Computational Chemistry</i> , 2009, 30, 934-939.	1.5	653
2	Moleculesâ€“Oligomersâ€“Nanowiresâ€“Graphene Nanoribbons: A Bottom-Up Stepwise On-Surface Covalent Synthesis Preserving Long-Range Order. <i>Journal of the American Chemical Society</i> , 2015, 137, 1802-1808.	6.6	221
3	Ultrathin TiO _x Films on Pt(111): A LEED, XPS, and STM Investigation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 24411-24426.	1.2	160
4	Tuning the catalytic activity of Ag(110)-supported Fe phthalocyanine in the oxygen reduction reaction. <i>Nature Materials</i> , 2012, 11, 970-977.	13.3	131
5	Growth and the structure of epitaxial VO ₂ at the TiO ₂ (110) surface. <i>Physical Review B</i> , 1997, 55, 7850-7858.	1.1	90
6	Bottom-Up Assembly of Single-Domain Titania Nanosheets on (1 $\bar{1}$ -2) $\bar{1}$ Pt(110). <i>Physical Review Letters</i> , 2006, 97, 156101.	2.9	79
7	On-surface photo-dissociation of Câ€“Br bonds: towards room temperature Ullmann coupling. <i>Chemical Communications</i> , 2015, 51, 12593-12596.	2.2	66
8	Multiple doping of graphene oxide foams and quantum dots: new switchable systems for oxygen reduction and water remediation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14334-14347.	5.2	57
9	Atomically Resolved Images from Near Node Photoelectron Holography Experiments on Al(111). <i>Physical Review Letters</i> , 2001, 86, 2337-2340.	2.9	46
10	Photoelectron diffraction study on the structure of a vanadium ultrathin film deposited at the TiO ₂ (110) surface. <i>Surface Science</i> , 1996, 349, L169-L173.	0.8	45
11	Experimental and Theoretical Study of a Surface Stabilized Monolayer Phase of Nickel Oxide on Pd(100). <i>Journal of Physical Chemistry B</i> , 2005, 109, 17197-17204.	1.2	45
12	Coverage-Dependent Architectures of Iron Phthalocyanine on Ag(110): a Comprehensive STM/DFT Study. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2144-2153.	1.5	42
13	Fullerene/Porphyrin Multicomponent Nanostructures on Ag(110): From Supramolecular Self-Assembly to Extended Copolymers. <i>ACS Nano</i> , 2010, 4, 5147-5154.	7.3	42
14	Tunable Band Alignment with Unperturbed Carrier Mobility of On-Surface Synthesized Organic Semiconducting Wires. <i>ACS Nano</i> , 2016, 10, 2644-2651.	7.3	40
15	An angle-scanned photoelectron diffraction study on the surface relaxation of ZnO (0001). <i>Surface Science</i> , 1994, 319, 149-156.	0.8	38
16	Early stages of epitaxial growth of vanadium oxide at the TiO ₂ (110) surface studied by photoelectron diffraction. <i>Physical Review B</i> , 1996, 54, 13464-13467.	1.1	38
17	Ultrathin VO _x /TiO ₂ (110) (x \approx 1) film preparation by controlled oxidation of metal deposits. <i>Surface Science</i> , 1999, 436, 227-236.	0.8	37
18	Growth and thermal behaviour of NiO nanolayers on Pd(100). <i>Surface Science</i> , 2005, 599, 1-13.	0.8	37

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19	Metal-Free on-Surface Photochemical Homocoupling of Terminal Alkynes. <i>Journal of the American Chemical Society</i> , 2016, 138, 10151-10156.	6.6	36
20	A LEED $\sqrt{2}$ structural determination of the $c(4\sqrt{2})$ Ni ₃ O ₄ /Pd(100) monolayer phase: an ordered array of Ni vacancies. <i>Surface Science</i> , 2005, 576, 1-8.	0.8	35
21	First-Principles Studies of Vanadia-Titania Catalysts: Beyond the Monolayer. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21766-21771.	1.2	35
22	Stereoselective Photopolymerization of Tetraphenylporphyrin Derivatives on Ag(110) at the Sub-Monolayer Level. <i>Chemistry - A European Journal</i> , 2014, 20, 14296-14304.	1.7	35
23	Surface carboxylate species on Cu(100) studied by angle-scanned photoelectron diffraction and LCAO-LDF calculations. <i>Surface Science</i> , 1994, 315, 309-322.	0.8	32
24	Growth of NiO ultrathin films on Pd(100) by post-oxidation of Ni films: the effect of pre-adsorbed oxygen. <i>Surface Science</i> , 2003, 537, 36-54.	0.8	32
25	Stability of TiO ₂ Polymorphs: Exploring the Extreme Frontier of the Nanoscale. <i>ChemPhysChem</i> , 2010, 11, 1550-1557.	1.0	31
26	Switching from Reactant to Substrate Engineering in the Selective Synthesis of Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2510-2517.	2.1	31
27	Angle-Scanned Photoelectron Diffraction: Probing crystalline ultrathin films. <i>Advanced Materials</i> , 1996, 8, 315-326.	11.1	30
28	The growth of ultrathin films of vanadium oxide on TiO ₂ ($\sqrt{2}$). <i>Surface Science</i> , 2004, 562, 150-156.	0.8	30
29	Structure of highly strained ultrathin Ni films on Pd($\sqrt{2}$). <i>Surface Science</i> , 2003, 522, 1-7.	0.8	29
30	An ARPEFS study of the structure of an epitaxial VO ₂ monolayer at the TiO ₂ (110) surface. <i>Applied Surface Science</i> , 1999, 142, 146-151.	3.1	26
31	Growth and structural characterisation of vanadium oxide ultrathin films on TiO ₂ (110). <i>Thin Solid Films</i> , 2001, 400, 26-36.	0.8	26
32	The structure of an ultrathin VO _x ($x \approx 1$) film grown epitaxially on TiO ₂ (110). <i>Surface Science</i> , 2000, 461, 118-128.	0.8	25
33	Vanadium on TiO ₂ ($\sqrt{2}$): adsorption site and sub-surface migration. <i>Surface Science</i> , 2003, 546, 117-126.	0.8	25
34	Mobility of Au on TiO _x Substrates with Different Stoichiometry and Defectivity. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3187-3190.	1.5	25
35	A LCAO-LDF study of formate chemisorption on Cu(100). <i>Surface Science</i> , 1994, 307-309, 95-100.	0.8	23
36	Photoelectron diffraction study of ultrathin film growth of Ni on Pt(111). <i>Surface Science</i> , 1995, 340, 215-223.	0.8	22

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37	The electronic properties of three popular high spin complexes [TM(acac) ₃], TM = Cr, Mn, and Fe] revisited: an experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24840-24854.	1.3	22
38	Reactive deposition of NiO ultrathin films on Pd(100). <i>Surface Science</i> , 2004, 569, 105-117.	0.8	20
39	Ultrathin TiO ₂ Films on (1 $\bar{1}$ 0)-Pt(110): a LEED, Photoemission, STM, and Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20038-20049.	1.5	20
40	Electronic structure of CuTPP and CuTPP(F) complexes: a combined experimental and theoretical study II. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24890-24904.	1.3	19
41	Strain analysis of epitaxial ultrathin films on Pt(111). <i>Surface Science</i> , 1998, 400, 239-246.	0.8	17
42	Strong Bonding of Single C ₆₀ Molecules to (1 $\bar{1}$ 0)-Pt(110): an STM/DFT Investigation. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9365-9373.	1.5	17
43	Temperature-Dependent Self-Assemblies of C ₆₀ on (1 $\bar{1}$ 0)-Pt(110): A STM/DFT Investigation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 378-390.	1.5	17
44	A theoretical study of the L ₃ pre-edge XAS in Cu(II) complexes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19852-19855.	1.3	17
45	Structurally Tunable Self-Assembled 2D Cocrystals of C ₆₀ and Porphyrins on the Ag (110) Surface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1587-1593.	1.5	17
46	Theoretical modeling of the L _{2,3} -edge X-ray absorption spectra of Mn(acac) ₂ and Co(acac) ₂ complexes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2242-2249.	1.3	17
47	Chromium wheels quasi-hexagonal 2D assembling by direct UHV sublimation. <i>Chemical Communications</i> , 2011, 47, 5744.	2.2	16
48	Reversible Fe Magnetic Moment Switching in Catalytic Oxygen Reduction Reaction of Fe-Phthalocyanine Adsorbed on Ag(110). <i>Journal of Physical Chemistry C</i> , 2015, 119, 12488-12495.	1.5	16
49	Electronic structures of CuTPP and CuTPP(F) complexes. A combined experimental and theoretical study I. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18727-18738.	1.3	16
50	L _{2,3} -edges absorption spectra of a 2D complex system: a theoretical modelling. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28110-28116.	1.3	16
51	A photoemission and resonant photoemission study of Ba deposition at the TiO ₂ (110) surface. <i>Applied Surface Science</i> , 1999, 142, 135-139.	3.1	15
52	STM Investigation of Temperature-Dependent Two-Dimensional Supramolecular Architectures of C ₆₀ and Amino-tetraphenylporphyrin on Ag(110). <i>Langmuir</i> , 2010, 26, 2466-2472.	1.6	14
53	Interplay between Layer-Resolved Chemical Composition and Electronic Structure in a Sn/Pt(110) Surface Alloy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14264-14269.	1.5	14
54	Mn(acac) ₂ and Mn(acac) ₃ complexes, a theoretical modeling of their L _{2,3} -edges X-ray absorption spectra. <i>Polyhedron</i> , 2017, 135, 216-223.	1.0	14

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55	Electronic properties and structure of vanadia ultra-thin films grown on TiO ₂ ($\bar{1}10$) in a water vapour ambient. <i>Surface Science</i> , 2001, 494, 213-228.	0.8	13
56	A photoelectron diffraction study of the surface-V ₂ O ₃ ($2\bar{1}\bar{1}$) layer on Pd(111). <i>Surface Science</i> , 2003, 529, L234-L238.	0.8	13
57	Theoretical Investigation of the Electronic Properties of Three Vanadium Phthalocyaninato (Pc) Based Complexes: PcV, PcVO, and PcVI. <i>Inorganic Chemistry</i> , 2018, 57, 1859-1869.	1.9	13
58	Substrate involvement in dioxygen bond dissociation catalysed by iron phthalocyanine supported on Ag(100). <i>Chemical Communications</i> , 2018, 54, 9418-9421.	2.2	13
59	Epitaxial growth of molybdenum on TiO ₂ (110). <i>Surface Science</i> , 2003, 544, 135-146.	0.8	12
60	On-surface synthesis of extended linear graphyne molecular wires by protecting the alkynyl group. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12180-12186.	1.3	12
61	Au(111) Surface Contamination in Ambient Conditions: Unravelling the Dynamics of the Work Function in Air. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100068.	1.9	12
62	Azimuthal orientation of formate and acetate on Cu(100) studied by angle-scanned photoelectron diffraction. <i>Surface Science</i> , 1993, 291, L756-L758.	0.8	11
63	Comparative Experimental and Theoretical Study of the Fe L _{2,3} -Edges X-ray Absorption Spectroscopy in Three Highly Popular, Low-Spin Organoiron Complexes: [Fe(CO) ₅], [(η^5 -C ₅ H ₅)Fe(CO)(η^1 -CO)] ₂ , and [(η^5 -C ₅ H ₅) ₂ Fe]. <i>Inorganic Chemistry</i> , 2019, 58, 5844-5857.	1.9	11
64	Core and Valence Band Photoemission Study of Highly Strained Ultrathin NiO Films on Pd(100). <i>Journal of Physical Chemistry C</i> , 2007, 111, 3736-3743.	1.5	10
65	Role of the Substrate Orientation in the Photoinduced Electron Dynamics at the Porphyrin/Ag Interface. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3632-3638.	2.1	10
66	XAS of tetrakis(phenyl)- and tetrakis(pentafluorophenyl)-porphyrin: an experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 2001-2011.	1.3	10
67	Angle-scanned photoelectron diffraction chemisorption study of c($2\bar{1}\bar{1}$ -O) on Ni(1 ML)/Cu(100). <i>Surface Science</i> , 1994, 321, L214-L218.	0.8	8
68	Ultrathin V films on Pt(111): a structural study by means of X-ray photoelectron spectroscopy and diffraction. <i>Surface Science</i> , 1999, 426, 235-250.	0.8	8
69	Ligand-Field Strength and Symmetry-Restricted Covalency in CuII Complexes - a Near-Edge X-ray Absorption Fine Structure Spectroscopy and Time-Dependent DFT Study. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2707-2713.	1.0	8
70	Structural studies of epitaxial ultrathin oxide films and nanoclusters by means of angle-scanned photoelectron diffraction (XPD). <i>Journal of Physics Condensed Matter</i> , 2002, 14, 4101-4117.	0.7	7
71	STM study of the initial stages of C ₆₀ adsorption on the Pt(110)-($1\bar{1}\bar{1}$) surface. <i>Applied Surface Science</i> , 2006, 252, 5534-5537.	3.1	7
72	Comparative Experimental and Theoretical Study of the C and O K-Edge X-ray Absorption Spectroscopy in Three Highly Popular, Low Spin Organoiron Complexes: [Fe(CO) ₅], [(η^5 -C ₅ H ₅)Fe(CO)(η^1 -CO)] ₂ , and [(η^5 -C ₅ H ₅) ₂ Fe]. <i>Inorganic Chemistry</i> , 2019, 58, 16411-16423.	1.9	7

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73	Characterization and Modeling of Reduced-Graphene Oxide Ambipolar Thin-Film Transistors. IEEE Transactions on Electron Devices, 2022, 69, 3192-3198.	1.6	7
74	A long-range ordered array of copper tetrameric units embedded in an on-surface metal organic framework. Journal of Chemical Physics, 2017, 147, 214706.	1.2	6
75	Enabling Circular Economy: The Overlooked Role of Inorganic Materials Chemistry. Chemistry - A European Journal, 2021, 27, 6676-6695.	1.7	6
76	A Theoretical Study of the Occupied and Unoccupied Electronic Structure of High- and Intermediate-Spin Transition Metal Phthalocyaninato (Pc) Complexes: VPc, CrPc, MnPc, and FePc. Nanomaterials, 2021, 11, 54.	1.9	6
77	From novel PtSn/Pt(110) surface alloys to SnOx/Pt(110) nano-oxides. Surface Science, 2013, 615, 103-109.	0.8	5
78	Real-time threshold voltage compensation on dual-gate electrolyte-gated organic field-effect transistors. Organic Electronics, 2022, 106, 106531.	1.4	5
79	Angle-scanned photoelectron diffraction chemisorption studies using heteroatomic surface monolayers. Surface Science, 1995, 331-333, 35-41.	0.8	4
80	EVIDENCE BY ANGLE-SCANNED PHOTOELECTRON DIFFRACTION FOR A CO-INDUCED RESTRUCTURING OF A Ni/Pt(111) MONOLAYER. Surface Review and Letters, 1997, 04, 1185-1189.	0.5	4
81	Polarization effects to enhance surface sensitivity of angle-scanned X-ray photoelectron diffraction in synchrotron-radiation-based experiments. Surface Science, 1998, 415, L1007-L1015.	0.8	4
82	Enhanced Magnetism through Oxygenation of FePc/Ag(110) Monolayer Phases. Journal of Physical Chemistry C, 2020, 124, 13993-14006.	1.5	4
83	Estimating soft-mode frequencies of surface overlayers by means of photoelectron diffraction: The(2Å-2)surface-V2O3/Pd(111). Physical Review B, 2003, 68, .	1.1	3
84	An experimental and theoretical study of metallorganic coordination networks of tetrahydroxyquinone on Cu(111). New Journal of Chemistry, 2019, 43, 19186-19192.	1.4	3
85	Silver nanostructures on a c(4Å-2)-NiOx/Pd(100) monolayer. Surface Science, 2008, 602, 499-505.	0.8	2
86	Templating Effect of Different Low-Miller-Index Gold Surfaces on the Bottom-Up Growth of Graphene Nanoribbons. ACS Applied Nano Materials, 2020, 3, 11497-11509.	2.4	2
87	On the Surface Photochemistry of Pre-Ordered 1-Methyl-2-phenylacetylenes: C-H Bond Activation and Intermolecular Coupling on Highly Oriented Pyrolytic Graphite. ChemPhysChem, 2019, 20, 2317-2321.	1.0	1
88	cis-[(1-5-C5H5)Fe(1-CO)(1/4-CO)]2, the poor relative between cis and trans tautomers. A theoretical study of the gas-phase Fe L3-edge and C and O K-edge XAS of trans-/cis-[(1-5-C5H5)Fe(1-CO)(1/4-CO)]2. Physical Chemistry Chemical Physics, 2021, 23, 24661-24668.	1.3	1
89	[Zn10(4-S)(3-S)6(Py)9(SO4)3] as a molecular model of ZnS surfaces: an experimental and theoretical study. Theoretical Chemistry Accounts, 2012, 131, 1.	0.5	0
90	Partial Oxidation in a Dense Phase Sub-Monolayer of Fe-Phthalocyanine on Ag(110). Solid State Phenomena, 0, 257, 219-222.	0.3	0

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91	Angle-Scanned Photoelectron Diffraction. , 1997, , 237-266.		0
92	Donation and back-donation in cis- and trans-[(η^5 -C ₅ H ₅)Fe(η^1 -CO)($\eta^1/4$ -CO)] ₂ tautomers: Which relative is more generous? An ETS-NOCV bond analysis. Inorganica Chimica Acta, 2022, 536, 120897.	1.2	0