

Europass Curriculum Vitae



Personal information

Surname(s) / First name(s)

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Nationality(-ies)

Date of birth

Locatelli, Andrea

andrea.locatelli@elettra.eu

Italian

19/05/1967

Career

Presentation

Andrea Locatelli graduated in physics at the University of Trieste in 1994. He continued his studies in Cambridge (GB), where he joined the group of Prof. Sir. David A. King and obtained a PhD in Physical Chemistry. Currently, he is the coordinator of the Spectroscopy, Photoemission and Dynamics group at Elettra-Sincrotrone Trieste. His main scientific interests are in the field of surface chemistry and materials sciences, which he addresses using synchrotron-based spectroscopy and microscopy. His research activity mainly focuses on the study of surfaces, interfaces and ultra-thin films, tackling topics related to the characterization and control of the chemical, electronic and magnetic properties of low dimensional systems. Andrea Locatelli has coauthored more than 225 papers in international referred journals and gave more than 60 presentations at international workshops, conferences as well as in various universities and research centers.

Work experience

10/2019 - present

Coordinator of the SPEctroscopy, PhotoEmission and Dynamics (SPEED) group at Elettra - Sincrotrone Trieste S.C.p.A.

06/2005 - present

First researcher and Coordinator of the Nanospectroscopy beamline at Elettra

03/2002 - 05/2005

Beamline scientist at Elettra

05/2000 - 03/2002

Postdoc at Elettra

05/1995 - 12/1995

Trainee at Elettra

Education and training

04/1996 - 04/2000

Ph.D. in Physical Chemistry (awarded on 24/01/2001)

Institution

University of Cambridge, Department of Chemistry, UK

Thesis title

A 4K interferometer for emission studies on surfaces

Principal subject

Studies on dynamical processes on surfaces using emission infrared spectroscopy

Advisor

Prof. Sir. D.A. King

1988 - 1994	Diploma in Physics, "Laurea in Fisica"
Institution	University of Trieste, Italy
Marks	110/110 cum laude
Thesis title	Adsorption site determination by means of high energy photoelectron diffraction: Pd(110)(2x1)p2mg-CO
Principal subject	Studies of surface atomic structures using photoelectron diffraction techniques
Advisor	Prof. R. Rosei
Areas of Expertise	
Research fields	Surface science and catalysis, mass transport by chemical reactions, spatio-temporal pattern formation during oscillatory surface catalytic reactions, surface magnetism, thin-film magnetism, ultra-thin film growth on metal and oxide supports, graphene and 2D materials, graphene growth, electronic structure, self-organization processes in ultra-thin films. Surfaces and interfaces, nanostructures. Synchrotron radiation, synchrotron radiation microscopy.
Analytic characterization methods	Synchrotron Radiation Characterization Methods, X-ray Spectroscopies, X-ray Spectro-microscopy, X-ray Photo-emission Electron Microscopy (XPEEM), Low Energy Electron Microscopy (LEEM), Low Energy Electron Diffraction (LEED), X-ray Photoelectron Spectroscopy (XPS), X-ray Photoelectron Diffraction (XPD), Angle-Resolved Photo-emission Spectroscopy (ARPES), STM, Reflection Absorption Infrared Spectroscopy (RAIRS), Magneto-Optical Kerr Effect (MOKE) magnetometry.
Information technology	Programming languages: Java, Jython, Python, C, C++, Fortran, Igor Pro; Operating systems: Windows, Unix; Data analysis software: Igor Pro.
Main Achievements	
Publications	As of 4/3/2022, I have coauthored more than 225 publications (see Scopus Author ID 55612897600 or ORCID ID: 0000-0002-8072-7343) in international referred journals (11 articles on Phys. Rev. Lett., 33 in Phys. Rev. B, 11 in ACS Nano, 5 in Nano Letters), 15 as main author, including one review paper, one invited concept article.
Participation to Conferences and Workshops	68 presentations at international workshops, conferences and in various universities and research centers, 3 as keynote speaker, 28 as invited speaker, 10 as invited lecturer.
Scientific Projects	Principal investigator of the CERIC MAG-ALCHEMI research project (duration of 3 years starting from September 2017).
Event Organization	Organizer and chair of the VI international workshop on LEEM-PEEM (Trieste, September 7-11, 2008); member of the International Advisory Board of the LEEM-PEEM conference series; Co-chair of the workshop "Probing Magnetic Dynamics with Ultra-Short Coherent X-ray pulses", organized by Elettra, Trieste, December 16-18, 2009; external member of the organizing committee of the international symposium ALC' (International Symposium on Atomic Level Characterizations for New Materials and Devices) 2009-2017. Member of the advisory board of IVC-19 (19th International Vacuum Congress), Paris, 2013 and co-organizer of the Special Symposium "Frontiers in Photoelectron Full-field Imaging and Spectromicroscopy". Co-organizer the XII European Conference of Surface Crystallography and Dynamics (Trieste, October 18-21, 2015). Member of the Scientific Committee of the EMRS Spring Meeting, Symposium CC on Nanomaterials "In situ studies of functional nano materials at large scale facilities: from model systems to applications" (Lille, May 2-6, 2016); Deputy and co-organizer of the HERCULES 2018 Local session and practicals @ Elettra/Fermi, 2018.

Editorial Activity	Editor of the Proceedings of the 6th international workshop on LEEM/PEEM, published on the Journal of Physics: Condensed Matter 21 (31) (2009) 310301. Member of the editorial board of the Elettra Highlights publication booklet in 2006, 2007, 2009; Head of the editorial board of Elettra Highlights publication in 2012.
Refereeing Activity	Referee for the following Scientific Journals: Nano Letters, ACS Nano, the Journal of Physical Chemistry B; Carbon; the Journal of the American Chemical Society; Nuclear Instruments and Methods in Physics Research Section B; J. Phys: Condensed Matter; Surface Science; Review of Scientific Instruments; Ultramicroscopy. Referee for the Italian agency ANVUR, for the Assessment of Quality in Scientific Research 2004-2010 and 2010-2014. Referee of various governmental research funding institutions.
Teaching Activity	Lecturer at Various School and Conferences: "ICTP School on Synchrotron Radiation and Applications - in memory of John Fuggle and Luciano Fonda", The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy (2004, 2006); "Advanced School on Synchrotron and Free Electron Laser Sources and their Multidisciplinary Applications" (2008-2018), The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy); "International School on Synchrotron Radiation: Fundamentals, Methods and Applications", organized by the Italian Society for Synchrotron Radiation (2005-2017); Lecturer for the Ph.D. course in Nanotechnology, University of Trieste.
Training Activity	During my activity I trained several postdocs: Dr. Francesca Genuzio (Elettra, Italy), Dr. Alessandro Sala (University of Trieste, Italy), Dr. T.O. Menteş (Elettra, Italy), Dr. Lucia Aballe (now at CELLS-ALBA, Barcellona, Spain), Dr. M. Á. Niño (now at IMDEA, Madrid, Spain), Dr. Benito Sanots (Elettra, Italy); I have been advisor of the following undergraduate students for their Diploma thesis in Physics: J. Ardini (University of Trieste), G. Zamborlini (University of Trieste), Pietro Genoni (University of Milan).
Awards	
1996-1999	Oppenheimer Trust scholarship
1996-1999	Cambridge European Trust scholarship

Publication list of Andrea Locatelli

March 4, 2022

- [1] A. Sala, Z. Zou, V. Carnevali, M. Panighel, F. Genuzio, T. O. Menteş, A. Locatelli, C. Cepek, M. Peressi, G. Comelli, C. Africh, Quantum confinement in aligned zigzag pseudo-ribbons embedded in graphene on Ni(100), *Advanced Functional Materials* 32 (10) (2022) 2105844. doi:10.1002/adfm.202105844.
- [2] T. Heisig, K. Lange, A. Gutsche, K. T. Goß, S. Hambsch, A. Locatelli, T. O. Menteş, F. Genuzio, S. Menzel, R. Dittmann, Chemical structure of conductive filaments in tantalum oxide memristive devices and its implications for the formation mechanism, *Advanced Electronic Materials* n/a (n/a) (2022) 2100936. doi:10.1002/aelm.202100936.
- [3] M. J. Hamer, A. Giampietri, V. Kandyba, F. Genuzio, T. O. Menteş, A. Locatelli, R. V. Gorbachev, A. Barinov, M. Mucha-Kruczyński, Moiré superlattice effects and band structure evolution in near-30-degree twisted bilayer graphene, *ACS Nano* 16 (2) (2022) 1954–1962. doi:10.1021/acsnano.1c06439.
- [4] F. Genuzio, T. Giela, M. Lucian, T. O. Menteş, C. A. Brondin, G. Cautero, P. Mazalski, S. Bonetti, J. Korecki, A. Locatelli, A UHV MOKE magnetometer complementing XMCD-PEEM at the Elettra synchrotron, *Journal of Synchrotron Radiation* 28 (3) (2021) 995–1005. doi:10.1107/S1600577521002885.
- [5] M. Ślęzak, H. Nayyef, P. Drózdź, W. Janus, A. Koziol-Rachwał, M. Szpytma, M. Zając, T. O. Menteş, F. Genuzio, A. Locatelli, T. Ślęzak, Controllable magnetic anisotropy and spin orientation of a prototypical easy-plane antiferromagnet on a ferromagnetic support, *Phys. Rev. B* 104 (2021) 134434. doi:10.1103/PhysRevB.104.134434.
- [6] M. Homann, B. von Boehn, M. Prieto, D. M. Gottlob, L. C. Tănase, T. Schmidt, F. Genuzio, T. O. Menteş, A. Locatelli, R. Imbihl, Coupling of morphological instability and kinetic instability: Chemical waves in hydrogen oxidation on a bimetallic Ni/Rh(111) surface, *Phys. Rev. Materials* 5 (2021) 045002. doi:10.1103/PhysRevMaterials.5.045002.
- [7] A. J. Graham, J. Zultak, M. J. Hamer, V. Zolyomi, S. Magorrian, A. Barinov, V. Kandyba, A. Giampietri, A. Locatelli, F. Genuzio, N. C. Teutsch, C. Salazar, N. D. M. Hine, V. I. Fal’ko, R. V. Gorbachev, N. R. Wilson, Ghost anti-crossings caused by interlayer umklapp hybridization of bands in 2D heterostructures, *2D Materials* 8 (1) (2021) 015016. doi:10.1088/2053-1583/abc13e.
- [8] P. Moras, T. O. Menteş, F. Schiller, L. Ferrari, D. Topwal, A. Locatelli, P. M. Sheverdyeva, C. Carbone, Reference plane for the electronic states in thin films on stepped surfaces, *Phys. Rev. B* 103 (2021) 165426. doi:10.1103/PhysRevB.103.165426.
- [9] D. W. Boukhvalov, S. Nappini, M. Vorokhta, T. O. Menteş, L. Piliai, M. Panahi, F. Genuzio, J. De Santis, C.-N. Kuo, C. S. Lue, V. Paolucci, A. Locatelli, F. Bondino, A. Politano, Revisiting the chemical stability of germanium selenide (GeSe) and the origin of its photocatalytic efficiency, *Advanced Functional Materials* 31 (50) (2021) 2106228. doi:10.1002/adfm.202106228.

- [10] L. Camosi, J. P. Garcia, O. Fruchart, S. Pizzini, A. Locatelli, T. O. Menteş, F. Genuzio, J. M. Shaw, H. T. Nembach, J. Vogel, Self-organised stripe domains and elliptical skyrmion bubbles in ultra-thin epitaxial $\text{Au}_{0.67}\text{Pt}_{0.33}/\text{Co}/\text{W}(110)$ films, *New Journal of Physics* 23 (1) (2021) 013020. doi:10.1088/1367-2630/abdbe0.
- [11] M. Jugovac, T. O. Menteş, F. Genuzio, J. Lachnitt, V. Feyer, J. I. Flege, A. Locatelli, Sensitivity to crystal stacking in low-energy electron microscopy, *Applied Surface Science* 566 (2021) 150656. doi:10.1016/j.apsusc.2021.150656.
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Conferences, Workshops and Seminars

March 4, 2022

- [1] **A. Locatelli.** Unveiling nanoscale materials using photoemission spectromicroscopy. In *NewTimes - New Trends in Materials Science and Engineering*, L'Aquila (Italy), 14-18 June, 2021 [**Keynote, online**].
- [2] **A. Locatelli.** Photoemission electron spectromicroscopy of complex interfaces: probing 2D materials and the support underneath. In *Graphene 2020*, Grenoble (France), June 2-5, 2020 [**Invited talk**].
- [3] **A. Locatelli.** Unveiling the local properties of nanomaterials using x-ray photoelectron spectromicroscopy. In *Bilateral Workshop: Nanotechnology and Nanoapplication*, Ljubljana (Slovenia), February 5-6, 2020 [**Invited talk**].
- [4] **A. Locatelli.** X-ray Photo-Emission Electron Microscopy: Methods and Applications in Surface Science. In *SILS2019, XV School on Synchrotron Radiation "Gilberto Vlaic": Fundamentals, Methods and Applications*, Muggia (Italy), 16-27 September, 2019 [**Oral Lecture**].
- [5] F. Genuzio, T. O. Menteş, P. Genoni, B. Santos, C. Lenardi, A. Sala, and **A. Locatelli.** Tuning thin film magnetism with 2D carbon overlayers. In *105° Congresso Nazionale - Società Italiana di Fisica*, L'Aquila (Italy), 23-27 September, 2019 [**Invited talk**].
- [6] P. Genoni, F. Genuzio, T. O. Menteş, B. Santos, A. Sala, C. Lenardi, and **A. Locatelli.** Magnetic patterning by electron beam assisted carbon lithography. In *ICESS-14, the fourteenth International Conference of Electronic Spectroscopy and Structure*, Shanghai (PRC), October 7-12, 2018 [**Oral**].
- [7] **A. Locatelli.** Spectromicroscopy with Synchrotron Radiation. In *2nd NFFA-Europe Summer School*, Basovizza, Trieste (Italy), July 9-13, 2018 [**Invited lecture**].
- [8] **A. Locatelli.** Cathode Lens Microscopy: LEEM, XPEEM and Applications. In *School on Synchrotron and Free-Electron-Laser Methods for Multidisciplinary Applications*, ICTP, Trieste (Italy), May 7-18, 2018 [**Invited lecture**].
- [9] **A. Locatelli.** Synchrotron radiation spectromicroscopy at the nanometer scale. In *Specialized seminars on experimental physics, Univerza v Ljubljani, Fakulteta za matematiko in fiziko*, Ljubljana (Slo), March 1-2, 2018 [**Invited lectures**].
- [10] F. Genuzio, P. Genoni, T.O. Menteş, B. Santos, A. Sala, C. Lenardi, and **A. Locatelli.** Local control of the magnetic anisotropy by electron and photon beam induced CO dissociation. In *11th International Symposium on Atomic Level Characterizations for New Materials and Devices 17 (ALC'17)*, Kauai HI, USA, December 3-8, 2017 [**Oral**].
- [11] **A. Locatelli.** Chemical and magnetic imaging with x-ray photoemission electron microscopy (XPEEM). In *XIV School on Synchrotron Radiation: Fundamentals, Methods and Applications*, Muggia (Italy), September 14-29, 2017 [**Invited lecture**].

- [12] **A. Locatelli**, , T.O. Menteş, G. Zamborlini, A. Sala, C. Africh, L.L. Patera, G. Comelli, M. Imam, C. Wang, N. Stojić, and N. Binggeli. Unveiling complex graphene structures using SPELEEM. In *13th European Conference on Surface Crystallography and Dynamics (ECSCD-13)*, Donostia-San Sebastián, Spain, June 19-21, 2017 [**Keynote oral**].
- [13] **A. Locatelli**. The CERIC MAG-ALCHEMI project: scientific goals and preliminary work. In *Science@CERIC Workshop*, Hermagor, Austria, March 27-29, 2017 [**Invited oral**].
- [14] **A. Locatelli**. Formation, structure and stability of noble-gas bubbles under graphene. In *Symposium on Surface and Nano Science 2017 (SSNS17)*, Furano, Japan, January 11-15, 2017 [**Invited oral**].
- [15] P. Genoni, T.O. Menteş, B. Santos, A. Sala, C. Lenardi, and **A. Locatelli**. Chemo-magnetic micro-grafting by beam induced CO dissociation. In *10th LEEM/PEEM workshop*, Monterey (CA), September 11-15, 2016 [**Oral**].
- [16] G. Zamborlini, T.O. Menteş, A. Sala, **A. Locatelli**, L. Patera, C. Africh, G. Comelli, M. Imam, N. Stojić, and N. Binggeli. Graphene irradiation with low energy ions: from substitutional implantation to nanobubble formation. In *3rd European Workshop on Epitaxial Graphene and 2D Materials (EWE G/2D)*, Bergisch Gladbach (near Cologne), May 17-21, 2016 [**Invited oral**].
- [17] **A. Locatelli**. Basic concepts for LEEM, PEEM and XPEEM and applications. In *ICTP School on Synchrotron and Free-Electron-Laser Based Methods: Multidisciplinary Applications and Perspectives*, Trieste, April 4-15, 2016 [**Invited lecture**].
- [18] **A. Locatelli**. Synchrotron-based photoemission electron microscopy: principles and practice. In *HERCULES European School: Neutrons and synchrotron radiation for science*, Grenoble and Trieste, March 29 to April 29, 2016 [**Lecture**].
- [19] P. Genoni, T.O. Menteş, B. Santos, A. Sala, C. Lenardi, and **A. Locatelli**. Chemo-magnetic micro-grafting by particle beam induced CO dissociation. In *SSNS'16, Symposium on Surface and Nano Science*, Furano, Japan, January 13-17, 2016 [**Invited oral**].
- [20] G. Zamborlini, M. Imam, L.L. Patera, T.O. Menteş, N. Stojić, C. Africh, A. Sala, N. Binggeli, G. Comelli, and **A. Locatelli**. Noble gas nanobubbles at extreme pressure under graphene. In *10th International Symposium on Atomic Level Characterizations for New Materials and Devices (ALC'15)*, Matsue (Japan), October 25-30, 2015 [**Invited oral**].
- [21] **A. Locatelli**. Cathode lens spectro-microscopy of the graphene-metal interface: film-substrate interactions, buffer layers and trapped species. In *16th European Conference on applications of Surface and Interface Analysis (ECASIA)*, Granada (Spain), September 28 - October 1, 2015 [**Keynote oral**].
- [22] **A. Locatelli**. Chemical and magnetic imaging with x-ray photoemission electron microscopy (XPEEM). In *XIII School on Synchrotron Radiation: Fundamentals, Methods and Applications*, Grado (Italy), September 14-25, 2015 [**Invited lecture**].
- [23] **A. Locatelli**. Cathode lens spectro-microscopy of the graphene-metal interface: film-substrate interactions, buffer layers and trapped species. In *GraphITA 2015*, Bologna (Italy), September 14-18, 2015 [**Invited oral**].
- [24] **A. Locatelli**. Cathode lens spectromicroscopy at elettra: applications and perspectives. In *MAX IV user Meeting, Nordic X-Ray Science Days*, Lund, Sweden, 29 September - 1 October, 2014 [**Invited oral**].
- [25] G. Zamborlini, T.O. Menteş, A. Sala, **A. Locatelli**, L. Patera, C. Africh, G. Comelli, M. Imam, N. Stojić, and N. Binggeli. Ripening and stability of rare gas clusters under graphene. In *LEEM/PEEM-9*, Berlin, Germany, September 14-18, 2014 [**Oral**].

- [26] **A. Locatelli.** Recent progress in cathode lens spectromicroscopy at Elettra: from chemical imaging to microprobe-ARPES. In *Technische Universität München*, München, Germany, May 26, 2014 [**Invited seminar**].
- [27] **A. Locatelli.** Nanospectroscopy by XPEEM and LEEM: current state and perspectives. In *12th International School and Symposium on Synchrotron Radiation in Natural Sciences*, Warsaw, Poland, 15-20 June, 2014 [**Invited oral**].
- [28] **A. Locatelli.** Cathode lens microscopy of the graphene-metal interface: from chemical imaging to micro-ARPES. In *Photon and Neutron Applications to the study of Biological and Nanoscale Systems*, Australian Synchrotron, Melbourne, 20-21 May, 2014 [**Invited oral**].
- [29] **A. Locatelli.** Full-field and scanning photoelectron spectromicroscopy at Elettra: state-of-the-art and opportunities. In *CEITEC Meeting*, Brno, Czech Republic, University Campus Bohunice, March 27, 2014 [**Invited oral**].
- [30] **A. Locatelli.** Recent progress in synchrotron-based cathode lens spectromicroscopy: chemical, magnetic and electronic structure characterization at the nanoscale. In *Workshop on synchrotron-based spectromicroscopy*, Università degli Studi di Milano, Dipartimento di Fisica, February 26, 2014 [**Invited seminar**].
- [31] **A. Locatelli**, T.O. Montes, C. Wang, N. Stojić, N. Binggeli, C. Africh, and G. Comelli. Temperature-controlled reversible rippling and bonding of graphene on a square lattice. In *ALC '13. 9th International Symposium on Atomic Level Characterizations for New Materials and Devices '13*, Kona, Hawaii, December 2-6, 2013 [**Oral**].
- [32] **A. Locatelli**, T.O. Montes, G. Zamborlini, C. Wang, N. Stojić, N. Binggeli, C. Africh, and G. Comelli. Temperature-driven reversible rippling, bonding and electronic structure of graphene on Ir(100). In *XCIX Congresso Nazionale della Società Italiana di Fisica*, Trieste, Italy, September 23-27, 2013 [**Oral**].
- [33] **A. Locatelli.** Photoemission electron microscopy for chemical and magnetic imaging. In *SILS XII school on Synchrotron Radiation: Fundamentals, Methods and Applications*, Grado, Italy, September 16-27, 2013 [**Invited Lecture**].
- [34] **A. Locatelli.** Chemical and magnetic imaging with x-ray photoemission electron microscopy. In *3rd Joint PhD Summer School on Nanotechnology, organized by SISSA - International School for Advanced Studies*, Trieste, Italy, September 4-6, 2013 [**Invited Lecture**].
- [35] **A. Locatelli**, C. Africh, C. Wang, N. Stojić, T.O. Montes, G. Comelli, and N. Binggeli. Temperature-controlled reversible rippling and bonding of graphene on a square lattice. In *19th International Vacuum Congress IVC-19*, Paris, September 9-13, 2013 [**Oral**].
- [36] **A. Locatelli**, T.O. Montes, C. Wang, N. Stojić, N. Binggeli, C. Africh, and G. Comelli. Morphology, bonding and electronic structure of graphene on Ir(100). In *VUVX2013, the 38th International conference on Vacuum Ultraviolet and X-ray Physics.*, Hefei, Anhui Province, China, July 12-19, 2013 [**invited oral**].
- [37] **A. Locatelli**, T.O. Montes, C. Wang, N. Stojić, N. Binggeli, C. Africh, and G. Comelli. Morphology and electronic structure of graphene on an Ir square lattice. In *The 8th International Workshop on LEEM-PEEM*, Hong Kong, November 11-15, 2012 [**Oral**].
- [38] **A. Locatelli.** Basic concepts in synchrotron radiation peem imaging and spectroscopy. In *The 8th International Workshop on LEEM-PEEM*, Hong Kong, November 11-15, 2012 [**Invited Tutorial lecture**].
- [39] **A. Locatelli.** Basic concepts for LEEM, PEEM and XPEEM and applications. In *School on Synchrotron and FEL Based Methods and their Multi-Disciplinary Applications*, Trieste, Italy, March 19-30, 2012 [**Invited lecture**].

- [40] **A. Locatelli.** Applications of cathode lens microscopy in research on nanomaterials @ Elettra. In *Science@C-ERIC*, Trieste, Italy, December 11-12, 2012 [**Oral**].
- [41] **A. Locatelli,** T. O. Montes, L. Aballe, M. Á. Niño, M. Kiskinova, E. Bauer, N. Stojić, N. Binggeli, J. Ardini, and G. Held. LEEM Studies of Stress-Driven Stripe Patterns in Metal Adlayers on W(110). In *28th European Conference on Surface Science (ECOSS-28)*, Wroclaw, Poland, August 28 - September 2, 2011 [**Invited oral**].
- [42] **A. Locatelli.** The LEEM-XPEEM beamline at Elettra: Nanospectroscopy. In *HERMES beamline “Expert users” Meeting*, Synchrotron SOLEIL, Paris, France, May 31, 2011 [**Invited oral**].
- [43] **A. Locatelli,** K.R. Knox, D. Cvetko, T.O. Montes, M. Á. Niño, S. Wang, M.B. Yilmaz, P. Kim, R.M. Osgood, and A. Morgante. Corrugation in suspended and supported exfoliated graphene: a LEEM, LEED and ARPES study. In *ALC11 - 8th International Symposium on Atomic Level Characterizations for New Materials and Devices 11*, Seoul, Republic of Korea, May 22-27, 2011 [**Invited oral**].
- [44] **A. Locatelli.** XPEEM and LEEM @ Elettra. In *TEAM workshop: “Atomic and molecular level devising of functional nanostructures for magnetic and catalytic applications”*, Zakopane, Poland, April 12-16, 2011 [**Invited oral**].
- [45] **A. Locatelli.** Can XPEEM meet the challenge of “nano-” and “fast”? In *1st International Workshop on SPEM*, Trieste, December 13-15, 2010 [**Oral**].
- [46] **A. Locatelli.** Challenges of nano-characterization by XPEEM: from high lateral resolution imaging to micro-ARPES. In *ALS Users’ Meeting 2010, workshop on X-Ray Spectromicroscopy and Photoemission Electron Microscopy (PEEM)*, Berekley, California, October 13-14, 2010 [**Invited oral**].
- [47] **A. Locatelli.** Stress-Driven Stripe Patterns in Metal Adlayers on W(110): a LEEM and XPEEM study. In *IMC17 - International Microscopy Congress (IMC-17)*, Rio de Janeiro, Brazil, September 19-24, 2010 [**Invited oral**].
- [48] **A. Locatelli.** Challenges of nano-characterization by XPEEM: from high lateral resolution imaging to micro-ARPES. In *Diamond Users’ Meeting 2010*, Didicot, United Kingdom, September 8-9, 2010 [**Invited oral**].
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