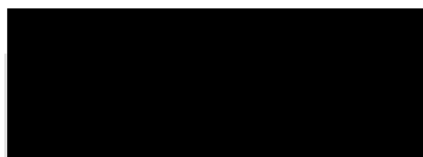


Curriculum vitae Standardized form

Total number of pages: 30

Antonio Politano

Address:
University of L'Aquila
Department of Physical and Chemical Sciences
Via Vetoio
67100 L'Aquila (Italy)



PERSONAL DATA

Family name: Politano

Forename: Antonio

Gender: Male

Nationality: Italian

E-mail: antonio.politano@univaq.it

Web-site: <https://scholar.google.it/citations?user=pTRV048AAAAJ&hl=it>

Field of study (UNESCO codes): 2211.28 – 2211.91- 2211.14 - 2211.10 - 2211.05

CONTRACTUAL POSITION

Associate Professor at University of L'Aquila from 3/9/2021

AFFILIATIONS

- 1) University of L'Aquila, Department of Physical and Chemical Sciences
- 2) Associate at National Research Council-Institute of Microelectronics and Microsystems (CNR-IMM) in Catania

Brief summary (key words).

Surface Physics- Metal surfaces- Vibrations- Adsorption- Thin metal films- Electron energy loss spectroscopy (EELS)- Surface plasmons- Alkali metals- Helium atom scattering (HAS)- Scanning tunneling microscopy (STM)- Graphene- Polymer-graphene nanocomposites - Raman spectroscopy- plasma-wave THz photodetection -Angle-resolved photoemission spectroscopy (ARPES)- X-ray spectroscopy (XPS) and absorption (XAS)- Synchrotron radiation- Topological insulators- Phosphorene- 2D materials- Nanodevices- Liquid-phase exfoliation

ACADEMIC BACKGROUND

Bachelor	Centre	Date
Laurea triennale in Fisica, 110/110 cum laude	Università degli Studi Della Calabria, Dipartimento di Fisica 87036 Rende (Cs) ITALY	27/7/2003
Laurea Magistrale in Fisica, 110/110 cum laude	Università degli Studi Della Calabria, Dipartimento di Fisica 87036 Rende (Cs) ITALY	23/7/2005
Second Laurea Magistrale (additional Three-year Master degree) in Scienza e Ingegneria dei Materiali Innovativi e Funzionali, 110/110 cum laude	Università degli Studi Della Calabria, Dipartimento di Fisica 87036 Rende (Cs) ITALY	17/7/2012

Ph.D.	Centre	Thesis Supervisor	Date
Fisica	Università degli Studi Della Calabria, Dipartimento di Fisica 87036 Rende (Cs) ITALY	Prof. [REDACTED]	15/12/2008

HABILITATIONS AS ASSOCIATE PROFESSOR

December 2013: Habilitation as Associate Professor for the scientific sector 02/B1- Experimental Physics of Matter (Italian Ministry of University and Research);

January 2014: Habilitation as Associate Professor for the scientific sector 03/A2- Models and Methods for Chemistry (Italian Ministry of University and Research)

October 2014: Habilitation as Associate Professor for the scientific sector 03/B2- Principles of Chemistry for Applied Technologies (Italian Ministry of University and Research)

October 2014: Habilitation as Associate Professor for the scientific sector 02/B1- Experimental Physics of Matter (Italian Ministry of University and Research) (* already in ASN 2012)

April 2017: Habilitation as Associate Professor for the scientific sector 02/B1- Experimental Physics of Matter (Italian Ministry of University and Research) (* already in ASN 2012 and 2013)
 December 2017: Habilitation as Associate Professor for the scientific sector 03/A2- Models and Methods for Chemistry (Italian Ministry of University and Research) (*already in ASN 2013)
 December 2017: Habilitation as Associate Professor for the scientific sector 03/B2- Principles of Chemistry for Applied Technologies (Italian Ministry of University and Research) (*already in ASN 2013)
 December 2017: Habilitation as Associate Professor for the scientific sector 03/B1
 - Principles of Chemistry and Inorganic Systems (Italian Ministry of University and Research)
 August 2018: Habilitation as Full Professor for the scientific sector 03/B1
 - Principles of Chemistry and Inorganic Systems (Italian Ministry of University and Research)

HABILITATION AS FULL PROFESSOR

October 2014: Habilitation as Full Professor for the scientific sector 03/B2- Principles of Chemistry for Applied Technologies (Italian Ministry of University and Research)
 April 2017: Habilitation as Full Professor for the scientific sector 02/B1- Experimental Physics of Matter (Italian Ministry of University and Research)
 August 2018: Habilitation as Full Professor for the scientific sector 03/B1
 - Principles of Chemistry and Inorganic Systems (Italian Ministry of University and Research)
 October 2018: Habilitation as Full Professor for the scientific sector 03/B2- Principles of Chemistry for Applied Technologies (*already in ASN 2013)

BIBLIOMETRIC INDICES

Source: Scholar, 05/04/2021. Number of citations: 4719; H-index:38

PAST SCIENTIFIC EXPERIENCE

<i>Position</i>	<i>R&D Centre</i>	<i>Institution</i>	<i>Start date</i>	<i>End date</i>
<i>PhD Student</i>		<i>Università degli Studi Della Calabria, Dipartimento di Fisica 87036 Rende (Cs) ITALY</i>	<i>October 2005</i>	<i>December 2008</i>
<i>Post-doc</i>	<i>Instituto Madrileño de Estudios Avanzados en Nanociencia, 28049 Madrid, Spain.</i>	<i>Departamento de Física de la Materia Condensada, Facultad de Ciencias, Universidad Autónoma de Madrid, 28049 Madrid, Spain.</i>	<i>January 2009</i>	<i>July 2011</i>
<i>Post-doc</i>		<i>Università degli Studi Della Calabria, Dipartimento di Fisica 87036 Rende (Cs) ITALY (DR N. 2718 29/09/2010) (DD n. 46, 16/6/2014)</i>	<i>September 2011</i>	<i>December 2016</i>

<i>Fixed-term Scientist</i>	<i>Italian Institute of Technology</i>	<i>Graphene Labs</i>	<i>June 2017</i>	<i>August 2018</i>
<i>Tenure Track (rtd-B)</i>	<i>University of L'Aquila</i>	<i>Department of Physical and Chemical Sciences (DSFC)</i>	<i>September 2018</i>	<i>September 2021</i>

LANGUAGES (N = NORMAL, G = GOOD, P = PERFECTLY)

<i>Language</i>	<i>Speaking</i>	<i>Reading</i>	<i>Writing</i>
<i>Italian</i>	<i>Perfectly</i>	<i>Perfectly</i>	<i>Perfectly</i>
<i>English</i>	<i>Perfectly</i>	<i>Perfectly</i>	<i>Perfectly</i>
<i>Spanish</i>	<i>Perfectly</i>	<i>Perfectly</i>	<i>Perfectly</i>
<i>French</i>	<i>Good</i>	<i>Perfectly</i>	<i>Good</i>

EXPERIMENTAL TECHNIQUES

High-resolution electron energy loss spectroscopy (HREELS); Auger electron spectroscopy (AES); Low-energy electron diffraction (LEED); He atom scattering (HAS); Scanning tunnelling microscopy (STM); Scanning tunnelling spectroscopy (STS); Raman spectroscopy; Scanning electron microscopy (SEM); X-ray photoemission spectroscopy (XPS); Electrochemical impedance spectroscopy (EIS); Dielectric spectroscopy; Angle-resolved photoemission spectroscopy (ARPES)

PRIZES

- [1] Winner of the **Prize for scientific activity “Carlo Castagnoli”** for young Italian researchers in Physics (graduated after May 2003), by the Italian Physical Society (*Società Italiana di Fisica, SIF*), Bologna, 20-09-2010.
- [2] Winner of the **Prize for scientific production “Alfredo di Braccio”** for young Italian researchers in Physics (under 35 years), by **Accademia Nazionale dei Lincei**, Roma, 16-06-2011, awarded by the President of Italian Republic.
- [3] **Winner of the NEST Prize for Nanoscience 2016**, organized by NEST Laboratory.
- [4] Inserted in the list of Top Italian Scientists by VIA Academy (H>31 only)
- [5] Inserted in the list of top 100,000 scientists worldwide by Mendeley
<https://data.mendeley.com/datasets/btchxktzyw/2>

FELLOWSHIPS

- Winner of the Fellowships by Fondazione Angelo Della Riccia for Italian post-doc in Physics- (**First classified**, 12 months) for the year 2008
- [6] Winner of the International Fellowship by IUVSTA, *International Union for Vacuum Science, Technique and Applications*, **First Classified**- August 2009-August 2010
- [7] Winner of Fellowships by Spanish Ministry of Education, "Subprograma Estancias de Movilidad de profesores e investigadores extranjeros en centros españoles- Movilidad B: Estancias de jóvenes doctores extranjeros en centros españoles" for post-doc up to 10 years from the PhD examination: **winner for "Física y Ciencias del Espacio"** (January 2010- May 2011)
- [8] Winner of a fellowship of Regione Calabria for post-doc (September 2011-August 2014)

TEACHING

- [1] Tutor for "Fisica e Esperimentazioni di Fisica" for Facoltà di Scienze Matematiche Fisiche e Naturali- Università degli Studi della Calabria- Academic year 2005/2006
- [2] Tutor for "Elementi di Meccanica e Termodinamica" for Facoltà di Scienze Matematiche Fisiche e Naturali- Università degli Studi della Calabria- Academic year 2006/2007
- [3] Tutor for e-learning and experiments in laboratory for "Progetto Lauree Scientifiche- Scienze dei Materiali" for Department of Physics, Università degli Studi della Calabria. Schools: Liceo Scientifico di Stato-Amantea (Cs) and Liceo Pitagora, Rende (Cs) Academic year 2006/2007
- [4] Tutor for "Elementi di Meccanica e Termodinamica" for Facoltà di Scienze Matematiche Fisiche e Naturali- Università degli Studi della Calabria- Academic year 2007/2008
- [5] Tutor for Starting Courses of physics organized by Regione Calabria- Academic year 2008/2009
- [6] Contract for the course "Proprietà elettromagnetiche dei materiali Parte B: Elettromagnetismo dei materiali", University of Calabria, Faculty of Science (SMFN), Three-year Master degree in Materials Science- Academic year 2011/2012
- [7] Tutor for the course "Physics for Geologists", Faculty of Science (SMFN), Three-year Master degree in Geology- Academic year 2012/2013
- [8] Contract for the course "Surface Science", University of Calabria, Faculty of Science (SMFN), specialistic Master degree in Physics- Academic year 2012/2013
- [9] Contract for the course "Physics" for the Three-year Master degree in Management Engineering- Faculty of Engineering- Academic years 2013/2014, 2014/2015, 2015/2016
- [10] Contract for the course "Physics" for the Three-year Master degree in Nutritional Science, University of Calabria- Academic year 2016/2017
- [11] Contract for the course "Surface Science" for the specialistic Master degree in Physics, University of Calabria- Academic year 2017/2018
- [12] Contract for the course "Introduction to Nanostructures and Nanotechnologies" for the Three-year Master degree in Materials Science, University of Calabria- Academic year 2017/2018
- [13] Course "Physics II" for the Three-year Master degree in Civil Engineering, University of L'Aquila- Academic years 2018/2019 and 2019/2020
- [14] Course "Physics II" for the Three-year Master degree in Industrial Engineering, University of L'Aquila- Academic years 2018/2019, 2019/2020 and 2020/2021
- [15] Course "Spectroscopy" for the specialistic Master degree in Physics, University of L'Aquila, Academic year 2020/2021

STUDENTS SUPERVISED

Students of University of Calabria that defended their Thesis: [REDACTED]
(Three-year Master degree in Material Science and Engineering) [REDACTED] (Three-year Master degree in [REDACTED])

Mechanical Engineering), [REDACTED] (Specialistic Master degree in Materials Science and Engineering)

MEMBERSHIP OF PHD BOARDS

Member of the PhD board of the Doctorate of Physical and Chemical Sciences of University of L'Aquila since 2018-2019

COMMISSIONER OF PhD EXAMINATIONS

- [1] Invited by Universidad del Pais Vasco, San Sebastián, Spain as external commissioner for the PhD examination in Materials Science of [REDACTED] (2012)
- [2] Invited by Universidad Autónoma de Madrid, Spain as external commissioner for the PhD examination in Condensed Matter Physics of [REDACTED] (2017)
- [3] Invited by Scuola Normale Superiore, Pisa, Italy as commissioner for the final PhD examination of [REDACTED] (2019)
- [4] Invited by Indian Institute of Technology (IIT), Kanpur, India as commissioner for the final PhD examination of [REDACTED] (2020)

ORGANIZATION OF CONFERENCES

- Organizer of the Italy-Republic of Korea workshop on 2D materials "beyond graphene", funded by Italian Embassy in Seoul, May 2016 (chairmen: prof. [REDACTED] Park-Hanyang University & dr. [REDACTED]-University of Calabria & [REDACTED]-CNR-ITM).
- Organizer of the Surface Science symposium of the 2019 conference of Italian Society of Physics in L'Aquila (27/9/2019)
- Chairman of the New Trends in Materials Science and Engineering conference (14-18 June 2021)

PATENTS

Italian Patent IT102018000020641

A. Politano, F. Bonaccorso, A. E. Del Rio, E. Drioli, A. Gugliuzza, F. Macedonio and V. Pellegrini, Italian patent : *Procedimento per la fabbricazione di una membrana composita con cristalli bidimensionali ottenuti per esfoliazione di materiali stratificati mediante tecniche di wet-jet milling*. Filing date: 21/12/2018; First publication date: 22/6/2020 Acceptance: 22/11/2020

EVALUATOR OF FOREIGN PROJECTS FOR NATIONAL ORGANIZATIONS

- [1] Expert evaluator of research programs in Physics funded by the Romanian Government through the National Council for Scientific Research ((Executive Agency for Higher Education, Research, Development and Innovation Funding, UEFISCDI) from June 2011
- [2] Expert evaluator of research projects in Physics funded by the Netherlands Organization for Scientific Research from November 2014.
- [3] Expert evaluator of research projects in Physics funded by the Department of Energy, United States of America (Office of Basic Energy Sciences within the Department of Energy Office of Science) from December 2017.
- [4] Expert evaluator of research projects in PE5 Synthetic Chemistry and Materials for ERC Starting Grant
- [5] Member of the Panel for research program in Sciences for the Greek government (managed by ELIDEK, chair prof. [REDACTED]).
- [6] Expert evaluator of research projects in Physics by Israeli Ministry of Science and Technology
- [7] Expert evaluator of research projects in Physics by Belgium
- [7] Expert evaluator of research projects in Physics by Swiss

EDITORIAL ACTIVITY

Associate Editor of “*Frontiers in Materials Science*”, EPFL, Lausanne, Switzerland, from April, 2014
(impact factor 2689)

Associate Editor of “*Nanomaterials*”, MPDI, from July 2019 (impact factor 4.034)

Associate Editor of “*Materials*”, MPDI, from January 2020 (impact factor 3.057)

REFEREE ACTIVITY

Member of the Official Referee Board of:

- [1] Physical Review B (American Physical Society) (from 2008, impact factor 3.691)
- [2] Journal of Electron Spectroscopy and Related Phenomena (Elsevier) (from 2008, i. f. 1.958)
- [3] Physical Review Letters (American Physical Society) (from 2008, impact factor 7.370)
- [4] Applied Surface Science (Elsevier) (from 2009, impact factor 2.103)
- [5] Progress in Electromagnetics Research (from 2009, impact factor 5.298)
- [6] Physical Chemistry Chemical Physics (Royal Society of Chemistry) (from 2010, i. f. 3.573)
- [7] Plasmonics (Springer) (from 2010, impact factor 2.989)
- [8] Surface Science (Elsevier) (from 2010, impact factor 1.994)
- [9] Europhysics Letters (European Physical Society) (from 2011, impact factor 2.171)
- [10] Material Science and Engineering B (Elsevier) (from 2011, impact factor 1.518)
- [11] Journal of Physics: Condensed Matter (Institute of Physics) (from 2011, impact factor 2.546)
- [12] Physica Status Solidi B- Basic Solid State Physics (Wiley) (from 2011, impact factor 1.316)
- [13] Measurement Science and Technology (Institute of Physics) (from 2011, impact factor 1.494)
- [14] Nanotechnology (Institute of Physics) (from 2012, impact factor 3.979)
- [15] Journal of Electromagnetic Waves and Applications (from 2012, impact factor 2.965)
- [16] Journal of Physical Chemistry C (from 2012, impact factor 4.805)
- [17] Journal of Applied Physics (from 2012, impact factor 2.168)
- [18] Advanced Materials (Wiley, from 2012)
- [19] RSC Advances (Royal Chemical Society, from 2012)
- [20] Applied Physics Letters (American Institute of Physics, from 2013)
- [21] Journal of Physics D: Applied Physics (Institute of Physics, from 2013)
- [22] Materials Chemistry and Physics (Elsevier, from 2013)
- [23] Optics Communications (Elsevier, from 2013)
- [24] Advanced Functional Materials (Wiley, from 2013)
- [25] Carbon (Elsevier, from 2013)
- [26] Advanced Energy Materials (Wiley, from 2013)
- [27] Journal of Materials Chemistry (Royal Society of Chemistry, from 2014)
- [28] Angewandte Chemie (Wiley, from 2014, impact factor 13.7)
- [29] Nanoscale (Royal Society of Chemistry, from 2014, impact factor 6.8)
- [30] Langmuir (American Chemical Society, from 2015)
- [31] IEEE Sensors (IEEE, from 2015)
- [32] ACS Nano (American Chemical Society, impact factor 12.881, from 2015)
- [33] ACS Photonics (American Chemical Society, from 2015)
- [34] Nature Materials (from 2018).
- [35] Nature Communications (from 2019)

PARTECIPATION TO PROJECTS

Project	Duraton	Role
Consolider-Ingenio en Nanociencia Molecular- Ministerio de Educación y Ciencia (Spain)	36	Participant
NANOGRAPH "Grafeno epitaxial nanoestructurado: crecimiento, propiedades físicas y químicas"- funded by Ministerio de Ciencia y Innovación (MEC, Spain)	36	Participant
Project for young researchers “Catalytic activity of quantum dots”: the system	12	Principal

Na/Cu(111)" funded by Univ. Calabria		investigator
Principal investigator of eight beamtimes at Elettra synchrotron and one at ESRF-Grenoble (g of them were also funded by Elettra)	~2	Principal investigator
COST Action MP1306 "Modern Tools for Spectroscopy on Advanced Materials: a European Modelling Platform"	48	Participant
COST Action CA1507 MultiCOMP "Multi-Functional Nano-Carbon Composite Materials"	48	Substitute MC for Italy (selected by Miur)
Graphene Flagship project	120	Collaborator at IIT-Graphene Labs
ERANET-MED Extrasea "Extracting water, minerals, and energy from seawater desalination brine"	36	Participant

PUBLICATIONS

Indicate volume, first and last page (year) and Key.

Key: B= full book, CB.= chapter of book, A= article, R= review, E= editor

(*) Those publications in process and not yet published, just specify publication status. (**) Optionally specify the most important aspects of each publication to assess quality (e.g. journal impact index, journal position on lists of the corresponding fields, cites received or other repercussion indicators)

AUTHORS: Politano A. , Chiarello G. , Formoso V. , Agostino R. G. , Colavita E. ,
TITLE: Plasmon of Shockley surface states in Cu(111): A high-resolution electron energy loss spectroscopy study

JOURNAL/BOOK TITLE: Physical Review B, Vol. 74, 081401 (2006) KEY: A

DATE OF PUBLICATION ():* 2006

*MOST OUTSTANDING ASPECTS (**):* 2006 Impact factor 3.107; Selected for publication on Virtual Journal of Nanoscale Science and Technology, Vol. 14 n. 7

AUTHORS: Politano A. , Agostino R. G. , Colavita E. , Formoso V. , Chiarello G.

TITLE: High resolution energy loss measurements of Na/Cu(111) and H₂O/Na/Cu(111): Dependence of water reactivity as a function of Na coverage

JOURNAL/BOOK TITLE: Journal of Chemical Physics, Vol. 126, 244712 (2007) KEY: A

DATE OF PUBLICATION ():* 2007

*MOST OUTSTANDING ASPECTS (**):* 2007 Impact factor 3.044

AUTHORS: Politano A. , Formoso V. , Agostino R. G. , Colavita E. , Chiarello G.

TITLE: Influence of CO adsorption on the alkali-substrate bond studied by high-resolution electron energy loss spectroscopy

JOURNAL/BOOK TITLE: Physical Review B, Vol. 76, 233403 (2007) KEY: A

DATE OF PUBLICATION ():* 2007

*MOST OUTSTANDING ASPECTS (**):* 2007 Impact factor 3.172

AUTHORS: Politano A. , Agostino R. G. , Colavita E. , Formoso V. , Chiarello G.

TITLE: Electronic properties of self-assembled quantum dots of sodium on Cu (111) and their interaction with water

JOURNAL/BOOK TITLE: Surface Science, Vol.601, 2656-2659 (2007) KEY: A

DATE OF PUBLICATION ():* 2007

*MOST OUTSTANDING ASPECTS (**):* 2007 Impact factor 1.855

AUTHORS: Politano A. Formoso V. , Chiarello G.

TITLE: Alkali adsorption on Ni(111) and their coadsorption with CO and O

JOURNAL/BOOK TITLE: Applied Surface Science, Vol.254, 2656-2659 (2008) KEY: A

DATE OF PUBLICATION ():* 2008

MOST OUTSTANDING ASPECTS (**): 2008 Impact factor 1.576

AUTHORS: Politano A. , Agostino R. G. , Colavita E. , Formoso V. , Tenuta L. , Chiarello G.
TITLE: *Vibrational measurements of Na/Ni(111) and (Na+CO)/ Ni(111)*
JOURNAL/BOOK TITLE: *Journal of Material Science*, Vol. 43, 3447-3451 (2008) KEY: A
DATE OF PUBLICATION (*): 2008
MOST OUTSTANDING ASPECTS (**):2008 Impact factor 1.054

AUTHORS: Politano A. , Agostino R. G. , Colavita E. , Formoso V. , Tenuta L. , Chiarello G.
TITLE: *The nature of the alkali-surface bond at low coverages investigated by vibrational measurements*
JOURNAL/BOOK TITLE: *The Journal of Physical Chemistry C*, Vol. 112, 6977-6980 (2008) KEY: A
DATE OF PUBLICATION (*): 2008
MOST OUTSTANDING ASPECTS (**):2008 Impact factor 3.396

AUTHORS: Politano A. Formoso V. , Chiarello G.
TITLE: *Temperature effects on alkali-promoted CO dissociation on Ni(111)*
JOURNAL/BOOK TITLE: *Surface Science*, Vol. 602, 2096-2100 (2008) KEY: A
DATE OF PUBLICATION (*): 2008
MOST OUTSTANDING ASPECTS (**):2008 Impact factor 1.731

AUTHORS: Politano A. Formoso V. , Chiarello G.
TITLE: *Dispersion and damping of gold surface plasmon*
JOURNAL/BOOK TITLE: *Plasmonics*, Vol. 3, 165-170 (2008) KEY: A
DATE OF PUBLICATION (*): 2008
MOST OUTSTANDING ASPECTS (**): 2008 Impact factor 3.488

AUTHORS: Politano A. Formoso V. , Chiarello G.
TITLE: *Evidences of alkali-induced softening of the oxygen-substrate bond*
JOURNAL/BOOK TITLE: *Journal of Chemical Physics*, Vol. 128, 074703 (2008) KEY: A
DATE OF PUBLICATION (*): 2008
MOST OUTSTANDING ASPECTS (**): 2008 Impact factor 3.149

AUTHORS: Politano A. Formoso V. , Chiarello G.
TITLE: *Alkali-promoted CO dissociation on Cu(111) and Ni(111) at room temperature*
JOURNAL/BOOK TITLE: *Journal of Chemical Physics*, Vol. 129, 164703 (2008) KEY: A
DATE OF PUBLICATION (*): 2008
MOST OUTSTANDING ASPECTS (**): 2008 Impact factor 3.149

AUTHORS: Politano A. , Agostino R. G., Formoso V. , Chiarello G.
TITLE: *Short-range interactions in Na coadsorption with CO and O on Ni(111)*
JOURNAL/BOOK TITLE: *ChemPhysChem*, Vol. 9, 1189-1194 (2008) KEY: A
DATE OF PUBLICATION (*): 2008
MOST OUTSTANDING ASPECTS (**): 2008 Impact factor 3.636

AUTHORS: Politano A., Agostino R. G., Colavita E., Formoso V. , Chiarello G.
TITLE: *Purely quadratic dispersion of surface plasmon in Ag/Ni(111): the influence of electron confinement*
JOURNAL/BOOK TITLE: *physica status solidi RRL- Rapid Research Letters*, Vol.2, 86-88 (2008) KEY: A
DATE OF PUBLICATION (*): 2008
MOST OUTSTANDING ASPECTS (**): 2008 Impact factor 2.147

AUTHORS: Politano A. Formoso V. , Chiarello G.
TITLE: *Mechanisms leading to alkali oxidation on metal surfaces*
JOURNAL/BOOK TITLE: *The Journal of Physical Chemistry C*, Vol. 112, 17772-17774 (2008) KEY: A
DATE OF PUBLICATION (*): 2008
MOST OUTSTANDING ASPECTS (**): 2008 Impact factor 3.396

AUTHORS: Politano A., Agostino R. G., Colavita E., Formoso V. , Chiarello G.
TITLE: *Electronic properties of (3/2x3/2)-Na/Cu(111)*
JOURNAL/BOOK TITLE: *Journal of electron spectroscopy and related phenomena*, Vol.162, 25-29 (2008)
DATE OF PUBLICATION (*): 2008

MOST OUTSTANDING ASPECTS (**): 2008 Impact factor 1.290

AUTHORS: Politano A., Colavita E., Formoso V., Chiarello G.

TITLE: *Probing collective electronic excitations in as-deposited and modified Ag thin films grown on Cu(111)*

JOURNAL/BOOK TITLE: *Physical Review B*, Vol. 79, 045426 (2009) KEY: A

DATE OF PUBLICATION (*): 2009

MOST OUTSTANDING ASPECTS (**): 2009 Impact factor 3.475

AUTHORS: Politano A., Formoso V., Chiarello G.

TITLE: *Comparative vibrational study on alkali coadsorption with CO and O*

JOURNAL/BOOK TITLE: *Journal of Physics: Condensed matter*, Vol. 21, 264006 (2009) KEY: A

DATE OF PUBLICATION (*): 2009

MOST OUTSTANDING ASPECTS (**): 2009 Impact factor 1.964

AUTHORS: Politano A., Formoso V., Chiarello G.

TITLE: *Collective excitations in nanoscale thin alkali films: Na/Cu(111)*

JOURNAL/BOOK TITLE: *Journal of Nanoscience and Nanotechnology*, Vol. 9, 3932–3937 (2009) KEY: A

DATE OF PUBLICATION (*): 2009

MOST OUTSTANDING ASPECTS (**): 2009 Impact factor 1.435

AUTHORS: Politano A., Formoso V., Chiarello G.

TITLE: *Dispersion and damping of surface plasmon in Ag thin films grown on Cu(111) and Ni(111)*

JOURNAL/BOOK TITLE: *Superlattices and Microstructures*, Vol. 46, 137-140 (2009) KEY: A

DATE OF PUBLICATION (*): 2009

MOST OUTSTANDING ASPECTS (**): 2009 Impact factor 0.910

AUTHORS: Politano A., Formoso V., Chiarello G.

TITLE: *Interference effects in the excitation of collective electronic modes in nanoscale thin Ag films*

JOURNAL/BOOK TITLE: *Superlattices and Microstructures*, Vol. 46, 166-170 (2009) KEY: A

DATE OF PUBLICATION (*): 2009

MOST OUTSTANDING ASPECTS (**): 2009 Impact factor 0.910

AUTHORS: Politano A., Formoso V., Chiarello G.

TITLE: *Annealing effects on the plasmonic excitations of metal/metal interfaces*

JOURNAL/BOOK TITLE: *Applied Surface Science*, Vol. 255, 6038-6042 (2009) KEY: A

DATE OF PUBLICATION (*): 2009

MOST OUTSTANDING ASPECTS (**): 2009 Impact factor 1.616

AUTHORS: Politano A., Formoso V., Chiarello G.

TITLE: *Chemical reactions at clean and alkali-doped mismatched metal/metal interfaces*

JOURNAL/BOOK TITLE: *The Journal of Physical Chemistry C*, Vol. 113, 316-320 (2009) KEY: A

DATE OF PUBLICATION (*): 2009

MOST OUTSTANDING ASPECTS (**): 2009 Impact factor 4.224

AUTHORS: Politano A., Formoso V., Chiarello G.

TITLE: *Effects of O adsorption on the Na+CO/Ni(111) system*

JOURNAL/BOOK TITLE: *Superlattices and Microstructures*, Vol. 46, 10-13 (2009) KEY: A

DATE OF PUBLICATION (*): 2009

MOST OUTSTANDING ASPECTS (**): 2009 Impact factor 0.910

AUTHORS: Politano A., Formoso V., Chiarello G.

TITLE: *Electronic properties of metallic bilayers deposited on Cu(111): a comparative study*

JOURNAL/BOOK TITLE: *Surface Science*, Vol. 603, 933-937 (2009) KEY: A

DATE OF PUBLICATION (*): 2009

MOST OUTSTANDING ASPECTS (**): 2009 Impact factor 1.798

AUTHORS: Politano A., Formoso V., Chiarello G.

TITLE: *Damping of the surface plasmon in clean and K-modified Ag films*

JOURNAL/BOOK TITLE: *Journal of Electron Spectroscopy and Related Phenomena*, Vol. 173, 12-17 (2009) KEY: A

MOST OUTSTANDING ASPECTS (**): 2009 Impact factor 0.942

AUTHORS: Politano A., Chiarello G.

TITLE: *Tuning the lifetime of the surface plasmon upon sputtering*
JOURNAL/BOOK TITLE: *physica status solidi RRL-Rapid Research Letters*, Vol.3, 136-138 (2009) KEY: A
DATE OF PUBLICATION (*): 2009
MOST OUTSTANDING ASPECTS (**): 2009 Impact factor 2.560

AUTHORS: Politano A., Chiarello G.
TITLE: *Electronic properties of gold ultrathin films studied by electron energy loss spectroscopy*
JOURNAL/BOOK TITLE: *Gold Bulletin*, Vol. 42, 195 (2009) KEY: A
DATE OF PUBLICATION (*): 2009
MOST OUTSTANDING ASPECTS (**): 2009 Impact factor 2.324

AUTHORS: Politano A., Chiarello G.
TITLE: *Collective electronic excitations in systems exhibiting quantum well states*
JOURNAL/BOOK TITLE: *Surface Review and Letters*, Vol. 16, 171-190 (2009) KEY: A
DATE OF PUBLICATION (*): 2009

AUTHORS: Politano A. Formoso V. , Chiarello G.
TITLE: *Plasmonic modes confined in nanoscale thin silver films deposited onto metallic substrates*
JOURNAL/BOOK TITLE: *Journal of Nanoscience and Nanotechnology*, Vol.10, 1313-1321 (2010) KEY: A
DATE OF PUBLICATION (*): 2010
MOST OUTSTANDING ASPECTS (**): 2010 Impact factor 1.351

AUTHORS: Politano A., Marino A. R., Chiarello G.
TITLE: *Alkali-promoted stabilization of subsurface oxygen on Cu(111)*
JOURNAL/BOOK TITLE: *Chemical Physics*, Vol. 367, 148-151 (2010) KEY: A
DATE OF PUBLICATION (*): 2010
MOST OUTSTANDING ASPECTS (**): 2010 Impact factor 2.017

AUTHORS: Politano A., , Chiarello G.
TITLE: *CO-promoted formation of the alkali-oxygen bond on Ni(111)*
JOURNAL/BOOK TITLE: *Journal of Chemical Physics*, Vol. 132, 044706 (2010) KEY: A
DATE OF PUBLICATION (*): 2010
MOST OUTSTANDING ASPECTS (**): 2010 Impact factor 2.920

AUTHORS: Politano A.
TITLE: *Electronic properties of ultrathin calcium films on Cu(111): a high-resolution electron energy loss spectroscopy study*
JOURNAL/BOOK TITLE: *Surface Review and Letters*, Vol. 17, 411-417 (2010) KEY: A
DATE OF PUBLICATION (*): 2010

AUTHORS: Politano A., , Chiarello G.
TITLE: *Sputtering-induced modifications of electronic properties of Ag/Cu(111)*
JOURNAL/BOOK TITLE: *Journal of Physics D: Applied Physics*, Vol. 43, 085302 (2010) KEY: A
DATE OF PUBLICATION (*): 2010
MOST OUTSTANDING ASPECTS (**): 2010 Impact factor 2.105

AUTHORS: Politano A., Chiarello G.
TITLE: *Enhancement of water reactivity in alkali films on Cu(111): the effect of electron confinement*
JOURNAL/BOOK TITLE: *Chemical Physics Letters*, Vol. 494, 84-87 (2010) KEY: A
DATE OF PUBLICATION (*): 2010
MOST OUTSTANDING ASPECTS (**): 2010 Impact factor 2.280

AUTHORS: Borca B., Barja S., Garnica M., Minniti M., Politano A., Rodriguez J. M., Hinarejos J. J., Farias D., Vázquez de Parga A. L., Miranda R.
TITLE: *Electronic and Geometric Corrugation of Periodically Rippled, Self-nanostructured Graphene Epitaxially Grown on Ru(0001)*
JOURNAL/BOOK TITLE: *New Journal of Physics*, Vol. 12, 093018 (2010) KEY: A
DATE OF PUBLICATION (*): 2010
MOST OUTSTANDING ASPECTS (**): 2010 Impact factor 3.849 Selected for publication on *Virtual Journal of Nanoscale Science and Technology*, Vol. 22 n. 16 (October 2010)

AUTHORS: Politano A., Chiarello G.

TITLE: O₂ dissociation in Na-modified gold ultrathin layer on Cu(111)
JOURNAL/BOOK TITLE: *Gold Bulletin*, Vol. 43, 267-274 (2010) KEY: A
DATE OF PUBLICATION (*): 2010
MOST OUTSTANDING ASPECTS (**): 2010 Impact factor 2.719

AUTHORS: Politano A., Chiarello G.
TITLE: *Low-energy bulk plasmon of nickel*
JOURNAL/BOOK TITLE: *Solid State Sciences*, Vol. 12, 2096-2099 (2010) KEY: A
DATE OF PUBLICATION (*): 2010
MOST OUTSTANDING ASPECTS (**): 2010 Impact factor 1.828

AUTHORS: Politano A., Chiarello G.
TITLE: *Carbon monoxide interaction with oxygenated nickel surfaces studied by vibrational spectroscopy*
JOURNAL/BOOK TITLE: *Vibrational spectroscopy*, Vol. 55, 295-299 (2011) KEY: A
DATE OF PUBLICATION (*): 2011
MOST OUTSTANDING ASPECTS (**): 2011 Impact factor 1.650

AUTHORS: Politano A., Chiarello G.
TITLE: *Vibrational investigation of catalyst surfaces: change of the adsorption site of CO molecules upon coadsorption*
JOURNAL/BOOK TITLE: *Journal of Physical Chemistry C*, Vol. 115, 13541–13553 (2011) KEY: A
DATE OF PUBLICATION (*): 2011
MOST OUTSTANDING ASPECTS (**): *Invited Feature Article. 2011 Impact factor 4.805*

AUTHORS: Chiarello G., Marino A. R., Formoso V., Politano A.
TITLE: *The adsorption and co-adsorption of oxygen and carbon monoxide on Pt₃Ni(111): a vibrational study*
JOURNAL/BOOK TITLE: *Journal of Chemical Physics*, Vol. 134, 224705 (2011) KEY: A
DATE OF PUBLICATION (*): 2011
MOST OUTSTANDING ASPECTS (**): 2011 Impact factor 3.333

AUTHORS: Politano A., Marino A. R., Formoso V., Fariás D., Miranda M., Chiarello G.
TITLE: *Evidence of acoustic plasmons on epitaxial graphene on Pt(111)*
JOURNAL/BOOK TITLE: *Physical Review B*, Vol. 84, 033401 (2011) KEY: A
DATE OF PUBLICATION (*): 2011
MOST OUTSTANDING ASPECTS (**): Selected for publication on *Virtual Journal of Nanoscale Science and Technology*, Vol. 24 n. 3 (July 2011) 2011 Impact factor 3.691.

AUTHORS: Politano A., Borca B., Minniti M., Hinarejos J. J., Vázquez de Parga A. L., Fariás D., Miranda R.
TITLE: *Helium reflectivity and Debye temperature of graphene grown epitaxially on Ru(0001)*
JOURNAL/BOOK TITLE: *Physical Review B*, Vol. 84, 035450 (2011) KEY: A
DATE OF PUBLICATION (*): 2011
MOST OUTSTANDING ASPECTS (**): Selected for publication on *Virtual Journal of Nanoscale Science and Technology*, Vol. 24 n. 7 (August 2011) 2011 Impact factor 3.691.

AUTHORS: Politano A., Marino A. R., Formoso V., Chiarello G.
TITLE: *Hydrogen bonding at the water/quasi-freestanding graphene interface*
JOURNAL/BOOK TITLE: *Carbon*, Vol. 49, 5180-5184 (2011) KEY: A
DATE OF PUBLICATION (*): 2011
MOST OUTSTANDING ASPECTS (**): 2011 Impact factor 5.378.

AUTHORS: Politano A., Marino A. R., Formoso V., Chiarello G.
TITLE: *Water adsorption on graphene/Pt(111) at room temperature: a vibrational investigation*
JOURNAL/BOOK TITLE: *AIP Advances*, Vol. 1, 042130 (2011) KEY: A
DATE OF PUBLICATION (*): 2011
MOST OUTSTANDING ASPECTS (**): New in 2011

AUTHORS: Politano A.
TITLE: *The excitation of plasmon modes at a mismatched silver/copper interface*
JOURNAL/BOOK TITLE: *Surf. Rev. Lett.*, Vol. 18, 153-162 (2011) KEY: A
DATE OF PUBLICATION (*): 2011

AUTHORS: Politano A., Marino A. R., Formoso V., Farías D., Miranda M., Chiarello G.
TITLE: *Quadratic dispersion and damping processes of π plasmon in monolayer graphene on Pt(111)*
JOURNAL/BOOK TITLE: *Plasmonics*, Vol. 7, 369-376 (2012) KEY: A
DATE OF PUBLICATION (*): 2012
MOST OUTSTANDING ASPECTS (**): 2011 Impact factor 2.989.

AUTHORS: Politano A., Marino A. R., Formoso V., Chiarello G.
TITLE: *Phonon dispersion of quasi-freestanding graphene on Pt(111)*
JOURNAL/BOOK TITLE: *Journal of Physics: Condensed Matter*, Vol. 24, 104025 (2012) KEY: A
DATE OF PUBLICATION (*): 2012
MOST OUTSTANDING ASPECTS (**): INVITED 2011 Impact factor 2.546.

AUTHORS: Politano A.
TITLE: *Influence of electronic and structural properties on the collective excitations of Ag/Cu(111)*
JOURNAL/BOOK TITLE: *Plasmonics*, Vol. 7, 731-736 (2012) KEY: A
DATE OF PUBLICATION (*): 2012
MOST OUTSTANDING ASPECTS (**): 2011 Impact factor 2.989.

AUTHORS: Politano A., Marino A. R., Formoso V., Chiarello G.
TITLE: *Evidence of Kohn anomalies in quasi-freestanding graphene on Pt(111)*
JOURNAL/BOOK TITLE: *Carbon*, Vol. 50, 734-736 (2012) KEY: A
DATE OF PUBLICATION (*): 2012
MOST OUTSTANDING ASPECTS (**): 2012 Impact factor 5.868.

AUTHORS: Politano A.
TITLE: *Interplay of structural and temperature effects on plasmonic excitations at noble-metal interfaces*
JOURNAL/BOOK TITLE: *Philosophical Magazine*, Vol. 92, 768-778 (2012) KEY: A
DATE OF PUBLICATION (*): 2012
MOST OUTSTANDING ASPECTS (**): 2011 Impact factor 1.510.

AUTHORS: Politano A., Marino A. R., Campi D., Farías D., Miranda M., Chiarello G.
TITLE: *Elastic properties of a macroscopic graphene sample from phonon dispersion measurements*
JOURNAL/BOOK TITLE: *Carbon*, Vol. 50, 4903-4910 (2012) KEY: A
DATE OF PUBLICATION (*): 2012
MOST OUTSTANDING ASPECTS (**): 2012 Impact factor 5.868.

AUTHORS: Minniti M., Díaz C., Fernández Cuñado J. L., Politano A., Maccariello D.,
TITLE: *He, Ne and Ar scattering from Ru(0001)*
JOURNAL/BOOK TITLE: *Journal of Physics: Condensed Matter*, Vol. 24, 354002 (2012) KEY: A
DATE OF PUBLICATION (*): 2012
MOST OUTSTANDING ASPECTS (**): INVITED 2011 Impact factor 2.546.

AUTHORS: Politano A., Chiarello G.
TITLE: *Alkali-induced hydrogenation of epitaxial graphene by water splitting at 100 K*
JOURNAL/BOOK TITLE: *Journal of Chemical Physics*, Vol. 138, 044703 (2013) KEY: A
DATE OF PUBLICATION (*): 2013
MOST OUTSTANDING ASPECTS (**): Impact factor 3.122.

AUTHORS: Politano A., Chiarello G.
TITLE: *The nature of free O-H stretching in water adsorbed on carbon nanosystems*
JOURNAL/BOOK TITLE: *Journal of Chemical Physics*, Vol. 139, 064704 (2013) KEY: A
DATE OF PUBLICATION (*): 2013
MOST OUTSTANDING ASPECTS (**): Impact factor 3.122.

AUTHORS: Cazzanelli E., Caruso T., Castriota M., Marino A.R., Politano A., Chiarello G., Giarola M.,
Mariatto G.
TITLE: *Spectroscopic characterization of graphene films grown on Pt(111) by chemical vapour deposition of ethylene*
JOURNAL/BOOK TITLE: *Journal of Raman Spectroscopy*, Vol. 44, 1393-1397 (2013) KEY: A
DATE OF PUBLICATION (*): 2013

MOST OUTSTANDING ASPECTS (**):Impact factor 2.519.

AUTHORS: Politano A., Campi D., Formoso V., Chiarello G.

TITLE: Evidence of confinement of the π plasmon in periodically rippled graphene on Ru(0001)

JOURNAL/BOOK TITLE: Physical Chemistry Chemical Physics, Vol. 15, 11356-11361 (2013) KEY: A

DATE OF PUBLICATION (*): 2013

MOST OUTSTANDING ASPECTS (**):Impact factor 4.198.

AUTHORS: Politano A.

TITLE: Low-Energy Collective Electronic Mode at a Noble Metal Interface

JOURNAL/BOOK TITLE: Plasmonics, Vol. 8, 357-360 (2013) KEY: A

DATE OF PUBLICATION (*): 2013

MOST OUTSTANDING ASPECTS (**):Impact factor 2.738.

AUTHORS: Politano A., Formoso V., Chiarello G.

TITLE: Interplay between single-particle and plasmonic excitations in the electronic response of thin Ag films

JOURNAL/BOOK TITLE: Journal of Physics: Condensed Matter, Vol. 25, 305001 (2013) KEY: A

DATE OF PUBLICATION (*): 2013

MOST OUTSTANDING ASPECTS (**):Impact factor 2.223.

AUTHORS: Politano A., Formoso V., Chiarello G.

TITLE: Evidence of composite plasmon-phonon modes in the electronic response of epitaxial graphene

JOURNAL/BOOK TITLE: Journal of Physics: Condensed Matter Vol. 25, 345303 (2013) KEY: A

DATE OF PUBLICATION (*): 2013

MOST OUTSTANDING ASPECTS (**):Impact factor 2.223.

AUTHORS: Politano A., Chiarello G.

TITLE: Quenching of plasmons modes in air-exposed graphene-Ru contacts for plasmonic devices

JOURNAL/BOOK TITLE: Applied Physics Letters, Vol. 102, 201608 (2013) KEY: A

DATE OF PUBLICATION (*): 2013

MOST OUTSTANDING ASPECTS (**):Impact factor 3.515.

AUTHORS: Politano A., Chiarello G.

TITLE: Periodically rippled graphene on Ru(0001): a template for site-selective adsorption of hydrogen dimers via water splitting and hydrogen-spillover at room temperature

JOURNAL/BOOK TITLE: Carbon, Vol. 61, 412-417 (2013) KEY: A

DATE OF PUBLICATION (*): 2013

MOST OUTSTANDING ASPECTS (**):Impact factor 6.160.

AUTHORS: Politano A., Formoso V., Chiarello G.

TITLE: Collective electronic excitations in thin Ag films on Ni(111)

JOURNAL/BOOK TITLE: Plasmonics, Vol. 8, 1683-1690 (2013) KEY: A

DATE OF PUBLICATION (*): 2013

MOST OUTSTANDING ASPECTS (**):Impact factor 2.738.

AUTHORS: Politano A., Chiarello G.

TITLE: On the intercalation of CO molecules in ultra-high vacuum conditions underneath graphene epitaxially grown on metal substrates

JOURNAL/BOOK TITLE: Carbon, Vol. 62, 263-269 (2013) KEY: A

MOST OUTSTANDING ASPECTS (**):Impact factor 6.160.

AUTHORS: Politano A., Chiarello G.

TITLE: Unravelling suitable graphene-metal contacts for graphene-based plasmonic devices

JOURNAL/BOOK TITLE: Nanoscale, Vol. 5, 8215-8220 (2013) KEY: A

DATE OF PUBLICATION (*): 2013

MOST OUTSTANDING ASPECTS (**):Impact factor 6.739

AUTHORS: Politano A., Chiarello G., Benedek G., Chulkov E. V., Echenique P.M.

TITLE: Vibrational measurements on alkali coadsorption systems: experiments and theory

JOURNAL/BOOK TITLE: Surface Science Reports, Vol. 68, 305-389 (2013) KEY: R

DATE OF PUBLICATION (*): 2013

MOST OUTSTANDING ASPECTS (**): 2013 Impact factor 24.562

AUTHORS: Politano A., Caputo M., Goldoni A., Torelli, G. Chiarello G.

TITLE: Segregation and Selective Oxidation of Ni Atoms in Pt₃Ni(111) in Low-Pressure Oxygen Environment

JOURNAL/BOOK TITLE: *Journal of Physical Chemistry C*, Vol. 117, 27007–27011 (2013) KEY: A

DATE OF PUBLICATION (*): 2013

MOST OUTSTANDING ASPECTS (**): Impact factor 4.814

AUTHORS: Fladischer K, Politano A., Ernst WE, Farias D, Miranda G

TITLE: A helium atom scattering study of well-ordered TCNQ adlayers on Cu(100)

JOURNAL/BOOK TITLE: *Surface Science*, Vol. 620, 65-69 (2014) KEY: A

DATE OF PUBLICATION (*): 2014

MOST OUTSTANDING ASPECTS (**): Impact factor 1.870

AUTHORS: Alzari V, Sanna V, Biccai S, Caruso T, Politano A, Scaramuzza N, Sechi M, Nuvoli D, Sanna R, Mariani A

TITLE: Tailoring the physical properties of nanocomposite films by the insertion of graphene and other nanoparticles

JOURNAL/BOOK TITLE: *Composites Part B: Engineering*, Vol. 60, 29-25 (2014) KEY: A

DATE OF PUBLICATION (*): 2014

MOST OUTSTANDING ASPECTS (**): Impact factor 2.602

AUTHORS: Politano A, Chiarello G

TITLE: Emergence of a nonlinear plasmon in doped graphene

JOURNAL/BOOK TITLE: *Carbon*, Vol.71, 176-180 (2014) KEY: A

DATE OF PUBLICATION (*): 2014

MOST OUTSTANDING ASPECTS (**): Impact factor 6.160

AUTHORS: Politano A, Chiarello G

TITLE: Plasmonic modes in thin films: quo vadis?

JOURNAL/BOOK TITLE: *Frontiers in Materials*, doi:10.3389/fmats.2014.00009 (2014) KEY: A

DATE OF PUBLICATION (*): 2014

MOST OUTSTANDING ASPECTS (**): Inaugural perspective article as Associate Editor (Dr. Politano)

AUTHORS: Politano A, Chiarello G

TITLE: Plasmon modes in graphene: status and prospect

JOURNAL/BOOK TITLE: *Nanoscale*, Vol. 6, 10927-10940 (2014) KEY: A

DATE OF PUBLICATION (*): 2014

MOST OUTSTANDING ASPECTS (**): Impact factor 6.739

AUTHORS: Politano A, Chiarello G

TITLE: The formation of HOCO in the coadsorption of water and carbon monoxide on Pt₃Ni(111)

JOURNAL/BOOK TITLE: *RSC Advances*, Vol. 4, 45641-45646 (2014) KEY: A

DATE OF PUBLICATION (*): 2014

MOST OUTSTANDING ASPECTS (**): Impact factor 3.71

AUTHORS: Politano A, Caputo M, Nappini S, Bondino F, Magnano F, Aliev Z, Babanly MB, Goldoni A, Chiarello G, Chulkov EV

TITLE: Exploring the surface chemical reactivity of single crystals of binary and ternary bismuth chalcogenides

JOURNAL/BOOK TITLE: *Journal of Physical Chemistry C*, Vol.118, 21517–21522 (2014) KEY: A

DATE OF PUBLICATION (*): 2014

MOST OUTSTANDING ASPECTS (**): Impact factor 4.835

AUTHORS: Politano A., Chiarello G.

TITLE: The influence of electron confinement, quantum size effects, and film morphology on the dispersion and the damping of plasmonic modes in Ag and Au thin films

JOURNAL/BOOK TITLE: *Progress in Surface Science*, Vol. 90, 144-193 (2015). KEY: R

DATE OF PUBLICATION (*): 2015

MOST OUTSTANDING ASPECTS (**): Invited. 2015 Impact factor 7.579

AUTHORS: Politano A, Chiarello G

TITLE: Ice formation on clean and alkali-doped quasi-freestanding graphene: A vibrational investigation

JOURNAL/BOOK TITLE: Carbon, Vol.93, 242–249 (2015) KEY: A

DATE OF PUBLICATION (): 2015*

*MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 6.198*

AUTHORS: De Juan F, Politano A, Chiarello G, Fertig H

TITLE: Symmetries and selection rules in the measurement of the phonon spectrum of graphene and related materials

JOURNAL/BOOK TITLE: Carbon, Vol.93, 225-232 (2015) KEY: A

DATE OF PUBLICATION (): 2015*

*MOST OUTSTANDING ASPECTS (**): Impact factor 6.196*

AUTHORS: Cupolillo A, Politano A, Ligato N, Perez Cid D M, Chiarello G,, Caputi L S

TITLE: Substrate-dependent plasmonic properties of supported graphene

JOURNAL/BOOK TITLE: Surface Science, Vol.634, 76-80 (2015) KEY: A

DATE OF PUBLICATION (): 2015*

*MOST OUTSTANDING ASPECTS (**): Impact factor 1.925*

AUTHORS: Politano A

TITLE: Probing growth dynamics of graphene/Ru(0001) and the effects of air exposure by means of helium atom scattering

JOURNAL/BOOK TITLE: Surface Science, Vol.634, 44-48 (2015) KEY: A

DATE OF PUBLICATION (): 2015*

*MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 1.931*

AUTHORS: Nechaev I A, Aguilera I, De Renzi V, di Bona A, Lodi Rizzini A, Mio A M, Nicotra G, Politano A, Scalese S, Aliev Z S, Babanly M B, Friedrich C, Blügel S, Chulkov E V

TITLE: Quasiparticle spectrum and plasmonic excitations in the topological insulator Sb_2Te_3

JOURNAL/BOOK TITLE: Physical Review B, Vol.91 ,245123 (2015) KEY: A

DATE OF PUBLICATION (): 2015*

*MOST OUTSTANDING ASPECTS (**): Impact factor 3.558*

AUTHORS: Politano A, Chiarello G

TITLE: Probing the Young's modulus and Poisson's ratio in graphene/metal interfaces and graphite: a comparative study

JOURNAL/BOOK TITLE: Nano Research, Vol.8 , 1847-1856 (2015) KEY: A

DATE OF PUBLICATION (): 2015*

*MOST OUTSTANDING ASPECTS (**): Impact factor 7.010*

AUTHORS: Politano A, Chiarello G, Cupolillo A

TITLE: Toward a novel theoretical approach for determining the nature of electronic excitations in quasi-two-dimensional systems

JOURNAL/BOOK TITLE: New Journal of Physics, Vol. 10, 081002 (2015) KEY: A

DATE OF PUBLICATION (): 2015*

*MOST OUTSTANDING ASPECTS (**): Invited Perspective, 2015 Impact factor 3.570*

AUTHORS: Nicotra G., Mio AM, Cupolillo A, Hu J, Wei J, Mao ZQ, Deretsis I, Politano A, Spinella C

TITLE: STEM and EELS of black phosphorus at atomic resolution

JOURNAL/BOOK TITLE: Microscopy and Microanalysis, Vol. 21, 427-428 (2015) KEY: A

DATE OF PUBLICATION (): 2015*

*MOST OUTSTANDING ASPECTS (**): Impact factor 1.877*

AUTHORS: Viti L, Hu J, Coquillat D, Knap W, Tredicucci A, Politano A, Vitiello MS

TITLE: Black Phosphorus Terahertz photodetectors

JOURNAL/BOOK TITLE: Advanced Materials, Vol. 27, 5567–5572 (2015) KEY: A

DATE OF PUBLICATION (): 2015*

*MOST OUTSTANDING ASPECTS (**): Impact factor 18.96*

AUTHORS: Politano A, de Juan F, Chiarello G, Fertig H

TITLE: Emergence of an Out-of-Plane Optical Phonon (ZO) Kohn Anomaly in Quasifreestanding Epitaxial Graphene

JOURNAL/BOOK TITLE: *Physical Review Letters*, Vol. 115, 075504 (2015) KEY: A
DATE OF PUBLICATION (*): 2015
MOST OUTSTANDING ASPECTS (**): Impact factor 7.512

AUTHORS: Politano A, Silkin VM, Nechaev IA, Vitiello MS, Viti L, Aliev ZS, Babanly MB, Chiarello G, Echenique PM, Chulkov EV
TITLE: *Interplay of surface and Dirac plasmons in topological insulators: the case of Bi₂Se₃*
JOURNAL/BOOK TITLE: *Physical Review Letters*, Vol. 115, 216802 (2015) KEY: A
DATE OF PUBLICATION (*): 2015
MOST OUTSTANDING ASPECTS (**): Impact factor 7.512

AUTHORS: Politano A
TITLE: *Spectroscopic investigations of phonons in epitaxial graphene*
JOURNAL/BOOK TITLE: *Critical Reviews in Solid State and Materials Sciences*,
doi:10.1080/10408436.2016.1138852 DATE OF PUBLICATION (*): 2016
MOST OUTSTANDING ASPECTS (**): Impact factor 5.556

AUTHORS: Politano A, Chiarello G
TITLE: *Unveiling the oxidation processes of Pt₃Ni(111) by real-time surface core-level spectroscopy*
JOURNAL/BOOK TITLE: *ChemCatChem*, Vol. 8, 713–718 (2016) KEY: A
DATE OF PUBLICATION (*): 2016
MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 4.724

AUTHORS: Viti L, Coquillat D, Politano A, Kokh K, Aliev ZS, Babanly MB, Tereschenko O, Knap W, Chulkov EV, Vitiello MS
TITLE: *Plasma-Wave Terahertz Detection Mediated by Topological Insulators Surface States*
JOURNAL/BOOK TITLE: *Nano Letters*, Vol. 16, 80-87 (2016) KEY: A
DATE OF PUBLICATION (*): 2016
MOST OUTSTANDING ASPECTS (**): Impact factor 13.779

AUTHORS: Viti L, Jin H, Coquillat D, Politano A, Knap W, Vitiello MS
TITLE: *Efficient Terahertz detection in black-phosphorus nano-transistors with selective and controllable plasma-wave, bolometric and thermoelectric response*
JOURNAL/BOOK TITLE: *Scientific Reports*, Vol. 6, 20474 (2016) KEY: A
DATE OF PUBLICATION (*): 2016
MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 5.228

AUTHORS: Lamuta C, Cupolillo A, Politano A, Aliev ZS, Babanly MB, Chulkov EV, Pagnotta L
TITLE: *Indentation fracture toughness of single crystal Bi₂Te₃ topological insulator*
JOURNAL/BOOK TITLE: *Nano Research*, Vol. 9, 1032-1042 KEY: A
DATE OF PUBLICATION (*): 2016
MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 8.893

AUTHORS: Lamuta C, Cupolillo A, Politano A, Aliev ZS, Babanly MB, Chulkov EV, Alfano M, Pagnotta L
TITLE: *Nanoindentation of single-crystal Bi₂Te₃ topological insulators grown with the Bridgman-Stockbarger method*
JOURNAL/BOOK TITLE: *Physica Status Solidi B*, Vol. 253, 1082–1086 KEY: A
DATE OF PUBLICATION (*): 2016
MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 1.522

AUTHORS: Politano A, Radovic I, Borka D, Miskovic ZL, Chiarello G
TITLE: *Interband plasmons in supported graphene on metal substrates: theory and experiments*
JOURNAL/BOOK TITLE: *Carbon*, Vol. 96, 91-97 (2016) KEY: A
DATE OF PUBLICATION (*): 2016
MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 6.198

AUTHORS: Lamuta C, Campi D, Cupolillo A, Aliev ZS, Babanly MB, Chulkov EV, Politano A, Pagnotta L
TITLE: *Mechanical properties of Bi₂Te₃ topological insulator investigated by density functional theory and nanoindentation*
JOURNAL/BOOK TITLE: *Scripta Materialia*, Vol. 121, 50-55 (2016) KEY: A
DATE OF PUBLICATION (*): 2016

*MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 3.305*

AUTHORS: Politano A, Cupolillo A, Di Profio G., Arafat H, Chiarello G, Curcio E

TITLE: When plasmonics meets membrane technology

JOURNAL/BOOK TITLE: *Journal of Physics: Condensed Matter*, Vol. 28, 363003 (2016) *KEY:* R

DATE OF PUBLICATION ():* 2016

*MOST OUTSTANDING ASPECTS (**): Impact factor 2.209*

AUTHORS: Politano A, Chiarello G, Spinella C

TITLE: Plasmon spectroscopy in graphene and other two-dimensional materials by transmission electron microscopy

JOURNAL/BOOK TITLE: *Materials in Semiconductor Processing*, doi:10.1016/j.mssp.2016.05.002 (2016)

KEY: R

*MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 2.264*

AUTHORS: Politano A, Cattelan M, Boukhvalov DW, Campi D, Cupolillo A, Agnoli S, Apostol NG, Lacovig P, Lizzit S, Farias D, Chiarello G, Granozzi G, Larciprete R

TITLE: Unveiling the Mechanisms Leading to H₂ Production Promoted by Water Decomposition on Epitaxial Graphene at Room Temperature

JOURNAL/BOOK TITLE: *ACS Nano*, Vol. 10, 4543–4549 (2016) *KEY:* A

*MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 13.334*

AUTHORS: Politano A, Chiarello G, Ramnakay R, Liu G, Gürbulak B, Duman S, Balandin AA, Boukhvalov DK

TITLE: The influence of chemical reactivity of surface defects on ambient-stable InSe-based nanodevices

JOURNAL/BOOK TITLE: *Nanoscale*, Vol. 8, 8474-8479 (2016) *KEY:* A

DATE OF PUBLICATION ():* 2016

*MOST OUTSTANDING ASPECTS (**): Impact factor 7.760*

AUTHORS: Larciprete R, Colonna S, Ronci F, Flammini R, Lacovig P, Apostol NG, Politano A, Feulner P, Menzel D, Lizzit S

TITLE: Self-assembly of graphene nanoblister sealed to a bare metal surface

JOURNAL/BOOK TITLE: *Nano Letters*, 1808-1817 (2016) *KEY:* A

DATE OF PUBLICATION ():* 2016

*MOST OUTSTANDING ASPECTS (**): Impact factor 13.779*

AUTHORS: Caputo C, Panighel M, Lisi S, Khalil L, Di Santo G, Papalaraou E, Hruban A, Konczykowski M, Krusin-Elbaum L, Aliev Z S, Babanly M B, Otrokov M, Politano A, Chulkov E V, Arnau A, Marinova M, Das P K, Fuji J, Vobornik I, Perfetti L, Mugarza A, Goldoni A, Marsi M

TITLE: Manipulating the Topological Interface by Molecular Adsorbates: Adsorption of Co-Phthalocyanine on Bi₂Se₃

JOURNAL/BOOK TITLE: *Nano Letters*, Vol.9, 1795-1800 (2016) *KEY:* A

DATE OF PUBLICATION ():* 2016

*MOST OUTSTANDING ASPECTS (**): Impact factor 13.779*

AUTHORS: Aliev Z.S., Zúñiga F. J., Koroteev Y. K., Breczewski T., Babanly N. B., Amiraslanov I. R., Politano A., Madariaga G., Babanly M. B., Chulkov E. V.

TITLE: Insight on a novel class of layered semiconductors: CuTIS and CuTISe

JOURNAL/BOOK TITLE: *Journal of Solid State Chemistry*, Vol. 242, 1-7 (2016) *KEY:* A

DATE OF PUBLICATION ():* 2016

*MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 2.265*

AUTHORS: Politano A

TITLE: Quasi-freestanding graphene on Ni(110): A graphene/metal contact with suppressed interface states

JOURNAL/BOOK TITLE: *Nano Research*, Vol. 9, 1795-1800 (2016) *KEY:* A

DATE OF PUBLICATION ():* 2016

*MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 8.893*

AUTHORS: Viti L, Hu J, Coquillat D, Politano A, Consejo C, Knap W, Vitiello MS

TITLE: Heterostructured hBN-BP-hBN Nanodetectors at Terahertz Frequencies

JOURNAL/BOOK TITLE: *Advanced Materials* Vol. 28, 7390-7396 (2016) KEY: A

DATE OF PUBLICATION (*): 2016

MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 18.96

AUTHORS: Politano A, Vitiello MS, Viti L, Hu J, Mao ZQ, Wei J, Chiarello G, Boukhvalov DK

TITLE: Unusually strong lateral interactions in the CO overlayer in phosphorene-based systems

JOURNAL/BOOK TITLE: *Nano Research* Vol. 9, 2598–2605 (2016) KEY: A

DATE OF PUBLICATION (*): 2016

MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 8.893

AUTHORS: Nicotra G, Politano A, Mio AM, Deretzis I, Hu J, Mao ZQ, Wei J, La Magna A, Spinella C

TITLE: Absorption edges in black phosphorus: a comparative analysis

JOURNAL/BOOK TITLE: *Physica Status Solidi B*, Vol. 253, 2509–2514 KEY: A

DATE OF PUBLICATION (*): 2016

MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 1.522

AUTHORS: Politano A, Argurio P, Di Profio G, Sanna V, Cupolillo A, Arafat HA, Curcio E

TITLE: Photothermal membrane distillation for seawater desalination

JOURNAL/BOOK TITLE: *Advanced Materials*, Vol.29 , 1603504 (2017) KEY: A

DATE OF PUBLICATION (*): 2017

MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 18.96

AUTHORS: Verre S, Ombres L, Politano A

TITLE: Evaluation of the free-vibration frequency and the variation of the bending rigidity of graphene nanoplates: the role of the shape geometry and boundary conditions

JOURNAL/BOOK TITLE: *Journal of Nanoscience and Nanotechnology*, Vol., 8827-8834 KEY: A

DATE OF PUBLICATION (*): 2017

MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 1.556

AUTHORS: Farrell E, Hassan MI, Tufa RF, Tuomiranta A, Avci AH, Politano A, Curcio E, Arafat HA

TITLE: Reverse electrodialysis powered greenhouse concept for water- and energy-self-sufficient agriculture

JOURNAL/BOOK TITLE: *Applied Energy*, Vol. 187, 190-209 (2017) KEY: A

DATE OF PUBLICATION (*): 2017

MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 5.746

AUTHORS: Politano A, Radovic I, Borka D, Miskovic ZL, Yu HK, Farias D, Chiarello G

TITLE: Dispersion and damping of the interband π plasmon in graphene grown on Cu(111) foils

JOURNAL/BOOK TITLE: *Carbon*, Vol. 114, 70-76 (2017) KEY: A

DATE OF PUBLICATION (*): 2017

MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 6.198

AUTHORS: Politano A, Vitiello MS, Viti L, Boukhvalov DW, Chiarello G

TITLE: The role of surface chemical reactivity in the stability of electronic nanodevices based on two-dimensional materials “beyond graphene” and topological insulators

JOURNAL/BOOK TITLE: *Flatchem*, Vol. 1, 60-64 (2017) KEY: A

DATE OF PUBLICATION (*): 2017

AUTHORS: Politano A, Slotman G, Roldan R, Chiarello G, Campi D, Katsnelson MI, Yuan S

TITLE: Effect of moiré superlattice reconstruction in the electronic excitation spectrum of graphene-metal heterostructures

JOURNAL/BOOK TITLE: *2D Materials*, Vol. 4, 021001 (2017) KEY: A

DATE OF PUBLICATION (*): 2017

MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 9.6

AUTHORS: Politano A, Viti L, Vitiello MS

TITLE: Optoelectronic devices, plasmonics, and photonics with topological insulators

JOURNAL/BOOK TITLE: *APL Materials*, Vol. 5, 035504 (2017) KEY: A

DATE OF PUBLICATION (*): 2017

MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 4.323

AUTHORS: Viti L, Politano A, Vitiello MS
TITLE: *Black phosphorus nanodevices at terahertz frequencies: Photodetectors and future challenges*
JOURNAL/BOOK TITLE: *APL Materials*, Vol. 5, 035602 (2017) KEY: A
DATE OF PUBLICATION (*): 2017
MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 4.323

AUTHORS: Mitrofanov O, Viti L, Dardanis E, MC Giordano, Ercolani D, Politano A, Sorba L, Vitiello MS
TITLE: *Near-field terahertz probes with room-temperature nanodetectors for subwavelength resolution imaging*
JOURNAL/BOOK TITLE: *Scientific Reports*, Vol. 7, 44240 (2017) KEY: A
DATE OF PUBLICATION (*): 2017
MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 5.228

AUTHORS: Politano A, Campi D, Cattelan M, Ben Amara I, Jaziri S, Mazzotti A, Barinov A, Gürbulak B, Duman S, Agnoli S, Caputi LS, Granozzi G, Cupolillo A
TITLE: *Indium selenide: an insight on electronic band structure and surface excitations*
JOURNAL/BOOK TITLE: *Scientific Reports*, Vol. 7, 3445 (2017) KEY: A
DATE OF PUBLICATION (*): 2017
MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 5.228

AUTHORS: Politano A, Chiarello G
TITLE: *Graphene on Pt₃Ni(111): a suitable platform for tunable charge doping, electron-phonon coupling and plasmonic excitations*
JOURNAL/BOOK TITLE: *2D Materials*, Vol. 4, 035003 (2017)
MOST OUTSTANDING ASPECTS (**): 2016 Impact factor 6.937

AUTHORS: Gugliuzza A, Politano A, Drioli E
TITLE: *The advent of graphene and other two-dimensional materials in membrane science and technology*
JOURNAL/BOOK TITLE: *Current Opinion in Chemical Engineering*, Vol. 16, 78-85 (2017)
MOST OUTSTANDING ASPECTS (**): 2016 Impact factor 3.403

AUTHORS: Politano A,
TITLE: *On the prospect of biosensors and bioelectronics with the novel topological phases of matter*
JOURNAL/BOOK TITLE: *International Journals of Biosensors & Bioelectronics*
doi:10.15406/ijbsbe.2017.02.00028 (2017)

AUTHORS: Politano A, Campi D, Stradi D, Chiarello G
TITLE: *Site-dependent lattice dynamics in periodically rippled graphene on Ru(0001)*
JOURNAL/BOOK TITLE: *Europhysics Letters*, Vol. 118, 27007 (2017)
MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 1.957

AUTHORS: Politano A, Lamuta C, Chiarello G
TITLE: *Cutting a Gordian knot: dispersion of plasmonic modes in Bi₂Se₃ topological insulator*
JOURNAL/BOOK TITLE: *Applied Physics Letters*, Vol. 110, 211601 (2017)
MOST OUTSTANDING ASPECTS (**): 2016 Impact factor 3.411

AUTHORS: Einaga M, Shimizu K, Hu J, Mao ZQ, Politano A
TITLE: *Resistivity of Weyl semimetals NbP and TaP under pressure*
JOURNAL/BOOK TITLE: *Physica Status Solidi-RRL*, Vol. 11, 1700182 (2017)
MOST OUTSTANDING ASPECTS (**): 2015 Impact factor 3.032

AUTHORS: Politano A, Chiarello G
TITLE: *Anomalous lattice vibrations in self-nanostructured graphene on Ru(0001)* KEY : A
JOURNAL/BOOK : *Surface Science*, doi: 10.1016/j.susc.2017.10.023 (2017)
DATE OF PUBLICATION(*): 2017
MOST OUTSTANDING ASPECTS(**): 2016 Impact factor 2.062

AUTHORS: Boukhvalov W D, Gürbulak B, Duman S, Wang L, Politano A, Caputi S L, Chiarello G, Cupolillo A
TITLE: *The Advent of Indium Selenide: Synthesis, Electronic Properties, Ambient Stability and Applications*

JOURNAL/BOOK : *Nanomaterials* , Vol. 7,372 (2017) KEY : R
DATE OF PUBLICATION(*): 2017
MOST OUTSTANDING ASPECTS(**): 2016 Impact factor 3.553

AUTHORS: Politano A, Di Profio G, Sanna V, Curcio E
TITLE: *Thermoplasmonic membrane distillation*
JOURNAL/BOOK : *Chemical Engineering Transactions*, Vol.60, 301-306 (2017) KEY : A
DATE OF PUBLICATION(*): 2017
MOST OUTSTANDING ASPECTS(**): 2015 Impact factor 0.82

AUTHORS: Politano A, Chiarello G, Kuo C.-N, Lue C. S.,Edla R, Torelli P, Pellegrini V, Boukhvalov D W
TITLE: *Tailoring the Surface Chemical Reactivity of Transition-Metal Dichalcogenide PtTe₂ Crystals*
JOURNAL/BOOK : *Adv. Funct. Mater.*Vol. 28 1706504 (2018) KEY : A
DATE OF PUBLICATION(*): 2018
MOST OUTSTANDING ASPECTS(**): 2017 Impact factor 13.325

AUTHORS: Politano, A, Yu HK, , Farias D, Chiarello, G
TITLE: *Multiple acoustic surface plasmons in graphene/Cu(111) contacts* KEY : A
JOURNAL/BOOK : *Physical Review B*, Vol. 97, 035414 (2018)
DATE OF PUBLICATION(*): 2018
MOST OUTSTANDING ASPECTS(**): 2016 Impact factor 3.836

AUTHORS: Politano A, Wang L, Chiarello G
TITLE: *Insight on Thermally Activated Hydrocarbon Dehydrogenation on the Pt₃Ni(111) Surface: From Adsorbed Hydrocarbons up to Graphene Formation*
JOURNAL/BOOK : *The Journal of Physical Chemistry C*, Vol.122, 3885-3892 (2018) KEY : A
DATE OF PUBLICATION(*): 2018
MOST OUTSTANDING ASPECTS(**): 2016 Impact factor 4.536

AUTHORS: Lamuta C, Campi D, Pagnotta L, Dasadia A, Cupolillo A, Politano A
TITLE: *Determination of the mechanical properties of SnSe, a novel layered semiconductor*
JOURNAL/BOOK : *Journal of Physics and Chemistry of Solids*, Vol.116 , 306-312 (2018) KEY : A
DATE OF PUBLICATION(*): 2018
MOST OUTSTANDING ASPECTS(**): 2016 Impact factor 2.059

AUTHORS: Roth S, Lee H, Sterzi A, Zacchigna M, Politano A, Sankar R, Chou FC, Di Santo G, Petaccia L, Yazyev OV, Crepaldi A
TITLE: *Reinvestigating the surface and bulk electronic properties of Cd₃As₂*
JOURNAL/BOOK : *Physical Review B*, Vol. 97, 165439 (2018).
KEY : A
DATE OF PUBLICATION(*): 2018
MOST OUTSTANDING ASPECTS(**): 2017 Impact factor 3.813

AUTHORS: A Agarwal, MS Vitiello, L Viti, A Cupolillo, A Politano
TITLE: *Plasmonics with two-dimensional semiconductors: from basic research to technological applications*
JOURNAL/BOOK : *Nanoscale*, Vol. 10, 8938-8946 (2018).
KEY : R
DATE OF PUBLICATION(*): 2018
MOST OUTSTANDING ASPECTS(**): 2017 Impact factor 7.233

AUTHORS: Politano A, Chiarello G, Li Z, Fabio V , Wang L, Guo L, Chen X, Boukhvalov D
TITLE: *Toward the effective exploitation of topological phases of matter in catalysis: chemical reactions at the surfaces of NbAs and TaAs Weyl semimetals*
JOURNAL/BOOK : *Advanced Functional Materials*, Vol. 28, 1800511 (2018).
KEY : A
DATE OF PUBLICATION(*): 2018
MOST OUTSTANDING ASPECTS(**): 2017 Impact factor 13.325

AUTHORS: Tang W*, Politano A* (* equal contribution), Guo C, Guo W, Liu C, Wang L, Chen X, Lu W
TITLE: *Ultrasensitive Room-Temperature Terahertz Direct Detection Based on a Bismuth Selenide Topological Insulator*
JOURNAL/BOOK : *Advanced Functional Materials*, Vol. 28, 1801786 (2018)

KEY : A

DATE OF PUBLICATION(*): 2018

MOST OUTSTANDING ASPECTS(**): 2019 Impact factor 16.836

AUTHORS: Liu C, Wang L, Chen X, Politano A, Wei D, Chen G, Tang W, Lu W, Tredicucci A

TITLE: Room-Temperature High-Gain Long-Wavelength Photodetector via Optical–Electrical Controlling of Hot Carriers in Graphene

JOURNAL/BOOK : *Advanced Optical Materials*, Vol. 6, 1800836 (2018)

KEY : A

DATE OF PUBLICATION(*): 2018.

MOST OUTSTANDING ASPECTS(**): 2017 Impact factor 13.325

AUTHORS: Giordano MC, Mastel S, Liewald C, Columbo LL, Brambilla M, Vitiello MS, Politano A, Zhang K, Li L, Davies AG, Linfield EH, Hillenbrand R, Keilmann F, Scamarcio G, Vitiello MS

TITLE: Phase-resolved terahertz self-detection near-field microscopy

JOURNAL/BOOK : *Optics Express*, Vol. 26, 18423-18435 (2018)

KEY : A

DATE OF PUBLICATION(*): 2018

MOST OUTSTANDING ASPECTS(**): 2017 Impact factor 3.356

AUTHORS: Petroni E, Lago E, Bellani S, Boukhalov DW, Politano A, Gürbulak B, Duman S, Mirko Prato, Gentiluomo S, Oropesa-Nuñez R, Panda JK, Toth PS, Del Rio Castillo AE, Pellegrini V, Bonaccorso F

TITLE: Liquid-Phase Exfoliated Indium–Selenide Flakes and Their Application in Hydrogen Evolution Reaction

JOURNAL/BOOK : *Small*, Vol. 14, 1800749 (2018)

KEY : A

DATE OF PUBLICATION(*): 2018

MOST OUTSTANDING ASPECTS(**): 2017 Impact factor 9.598

AUTHORS: Nicotra N, van Veen E, Deretzis I, Wang L, Hu J, Mao ZQ, Fabio V, Spinella C, Chiarello G, Rudenko A, Yuan S, Politano A

TITLE: Anisotropic ultraviolet-plasmon dispersion in black phosphorus

JOURNAL/BOOK : *Nanoscale*, Vol. 10, 21918-21927 (2018)

KEY : A

DATE OF PUBLICATION(*): 2018

MOST OUTSTANDING ASPECTS(**): 2017 Impact factor 7.223

AUTHORS: Politano A, Chiarello G, Ghosh B, Sadhukhan K, Kuo CN, Lue CS, Pellegrini V, Agarwal A

TITLE: 3D Dirac Plasmons in the Type-II Dirac Semimetal

JOURNAL/BOOK : *Physical Review Letters*, Vol. 121, 086804 (2018)

KEY : A

DATE OF PUBLICATION(*): 2018

MOST OUTSTANDING ASPECTS(**): EDITORS' CHOICE. FEATURED IN APS-PHYSICS.

2017 Impact factor 8.839

AUTHORS: Macedonio F, Politano A, Drioli E, Gugliuzza A

TITLE: Bi₂Se₃-assisted membrane crystallization

JOURNAL/BOOK : *Materials Horizons*, Vol. 5, 912-919 (2018)

KEY : A

DATE OF PUBLICATION(*): 2018

MOST OUTSTANDING ASPECTS(**): 2017 Impact factor 13.183

AUTHORS: Vitiello MS, Politano A, Zhang K, Vitiello MS

TITLE: Thermoelectric terahertz photodetectors based on selenium-doped black phosphorus flakes

JOURNAL/BOOK : *Nanoscale*, Vol. 11, 1995-2002 (2019).

KEY : A

DATE OF PUBLICATION(*): 2019

MOST OUTSTANDING ASPECTS(**): 2018 Impact factor 6.970

AUTHORS: Gontarek E, Macedonio F, Militano F, Giorno L, Lieder M, Politano A, Drioli E, Gugliuzza A
TITLE: Adsorption-assisted transport of water vapour in super-hydrophobic membranes filled with multilayer graphene platelets
JOURNAL/BOOK : *Nanoscale*, Vol. 11, 11521-11529 (2019).
KEY : A
DATE OF PUBLICATION():* 2019
*MOST OUTSTANDING ASPECTS(**):* 2018 *Impact factor* 6.970

AUTHORS: Ghosh B, Alessandro F, Zappia M, Brescia R, Kuo CN, Lue CS, Chiarello G, Politano A, Caputi LS, Agarwal A, Cupolillo A
TITLE: Broadband excitation spectrum of bulk crystals and thin layers of PtTe₂
JOURNAL/BOOK : *Physical Review B*, Vol. 99, 045414 (2019)
KEY : A
DATE OF PUBLICATION():* 2018
*MOST OUTSTANDING ASPECTS(**):* 2017 *Impact factor* 3.813

AUTHORS: Chiarello G, Hofmann J, Li Z, Fabio V, Guo LW, Chen XL, Das Sarma S, Politano A
TITLE: Tunable surface plasmons in Weyl semimetals TaAs and NbAs
JOURNAL/BOOK : *Physical Review B*, Vol. 99, 121401(R) (2019)
KEY : A
DATE OF PUBLICATION():* 2019
*MOST OUTSTANDING ASPECTS(**):* 2019 *Impact factor* 3.575

AUTHORS: Politano A, Di Profio G, Fontananova E, Sanna V, Cupolillo A, Curcio E
TITLE: Overcoming the temperature polarization in membrane distillation by thermoplasmonic effects activated in Ag nanofillers in polymeric membranes
JOURNAL/BOOK : *Desalination*, Vol. 451, 192-199 (2019) *KEY :* A
DATE OF PUBLICATION():* 2019
*MOST OUTSTANDING ASPECTS(**):* 2019 *Impact factor* 7.098

AUTHORS: Chiarello G, Fabio V, Boukhvalov DW, Politano A
TITLE: Sequestration of carbon monoxide at room temperature at vacancy sites of graphene
JOURNAL/BOOK : *Chemical Communications*, Vol. 55, 8607-8610 (2019).
KEY : A
DATE OF PUBLICATION():* 2019
*MOST OUTSTANDING ASPECTS(**):* 2019 *Impact factor* 5.996

AUTHORS: Gao J, Cupolillo A, Nappini S, Bondino F, Edla R, Fabio V, Sankar R, Zhang YW, Chiarello G, Politano A
TITLE: Surface Reconstruction, Oxidation Mechanism, and Stability of Cd₃As₂
JOURNAL/BOOK : *Advanced Functional Materials*, Vol. 29, 1900965 (2019)
KEY : A
DATE OF PUBLICATION():* 2019
*MOST OUTSTANDING ASPECTS(**):* 2019 *Impact factor* 16.836

AUTHORS: Boukhvalov DW, Edla R, Cupolillo A, Fabio V, Sankar R, Zhu Y, Mao ZQ, Hu J, Torelli P, Chiarello G, Ottaviano L, Politano A
TITLE: Surface Instability and Chemical Reactivity of ZrSiS and ZrSiSe Nodal-Line Semimetals
JOURNAL/BOOK : *Advanced Functional Materials*, Vol. 29, 1900438 (2019)
KEY : A
DATE OF PUBLICATION():* 2019
*MOST OUTSTANDING ASPECTS(**):* 2019 *Impact factor* 16.836

AUTHORS: He G, Wang Q, Yu HK, Farias D, Liu Y, Politano A

TITLE: Water-induced hydrogenation of graphene/metal interfaces at room temperature: Insights on water intercalation and identification of sites for water splitting

JOURNAL/BOOK : *Nano Research*, Vol. 12, 3101-3108 (2019)

KEY : A

DATE OF PUBLICATION():* 2019

*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 8.183

AUTHORS: Xu H, Guo C, Zhang J, Guo W, Kuo CN, Lue CS, Hu W, Wang L, Chen G, Politano A, Chen X, Lu W

TITLE: PtTe₂-Based Type-II Dirac Semimetal and Its van der Waals Heterostructure for Sensitive Room Temperature Terahertz Photodetection

JOURNAL/BOOK : *Small*, Vol. 15, 1903362 (2019)

KEY : A

DATE OF PUBLICATION():* 2019

*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 11.459

AUTHORS: He G, Wang Q, Yu HK, Farias D, Liu Y, Politano A

TITLE: Water-induced hydrogenation of graphene/metal interfaces at room temperature: Insights on water intercalation and identification of sites for water splitting

JOURNAL/BOOK : *Nano Research*, Vol. 12, 3101-3108 (2019)

KEY : A

DATE OF PUBLICATION():* 2019

*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 8.183

AUTHORS: Ghosh B, Mondal D, Kuo CN, Lue CS, Nayak J, Fuji J, Vobornik I, Politano A, Agarwal A

TITLE: Observation of bulk states and spin-polarized topological surface states in transition metal dichalcogenide Dirac semimetal candidate NiTe₂

JOURNAL/BOOK : *Physical Review B*, Vol. 100, 195134 (2019)

KEY : A

DATE OF PUBLICATION():* 2020

*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 3.575

AUTHORS: Edla R, Kuo CN, Torelli P, Lue CS, Boukhvalov DW, Politano A

TITLE: Interaction of VSe₂ with Ambient Gases: Stability and Chemical Reactivity

JOURNAL/BOOK : *Physica Status Solidi Rapid Research Letters*, Vol. 14, 1900332 (2020)

KEY : A

DATE OF PUBLICATION():* 2020

*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 2.291

AUTHORS: Boukhvalov DW, Politano A

TITLE: Unveiling the origin of room-temperature ferromagnetism in monolayer VSe₂: the role of extrinsic effects

JOURNAL/BOOK : *Nanoscale*, Vol. 12, 20875-20882 (2020)

KEY : A

DATE OF PUBLICATION():* 2020

*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 6.895

AUTHORS: Zhang Y, Nappini S, Sankar R, Bondino F, Gao J, Politano A

TITLE: Assessing the stability of Cd₃As₂ Dirac semimetal in humid environments: the influence of defects, steps and surface oxidation

JOURNAL/BOOK : *Journal of Materials Chemistry C*, doi:10.1039/D0TC04883F (2020)

KEY : A

DATE OF PUBLICATION():* 2020

*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 7.059

AUTHORS: Mastrippolito D, Palleschi S, D'Olimpio G, Politano A, Nardone M, Benassi P, Ottaviano L
TITLE: Exciton–phonon coupling and power dependent room temperature photoluminescence of sulphur vacancy doped MoS₂ via controlled thermal annealing
JOURNAL/BOOK : *Nanoscale*, Vol. 12, 18899-18907 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 6.895

AUTHORS: Frappa M, Del Rio Castillo AE, Macedonio F, Politano A, Drioli E, Bonaccorso F, Pellegrini V, Gugliuzza A
TITLE: A few-layer graphene for advanced composite PVDF membranes dedicated to water desalination: a comparative study
JOURNAL/BOOK : *Nanoscale Advances*, Vol. 2, 4728-4739 (2020)
KEY : A
DATE OF PUBLICATION():* 2020

AUTHORS: D'Olimpio G, Guo C, Kuo CN, Edla R, Lue CS, Ottaviano L, Torelli P, Wang L, Boukhvalov DW, Politano A
TITLE: PdTe₂ Transition-Metal Dichalcogenide: Chemical Reactivity, Thermal Stability, and Device Implementation
JOURNAL/BOOK : *Advanced Functional Materials*, Vol. 30, 1906556 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 16.386

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AUTHORS: Nappini S, Boukhvalov DW, D'Olimpio G, Zhang L, Ghosh B, Kuo CN, Zhu H, Cheng J, Nardone M, Ottaviano L, Mondal D, Edla R, Fuji J, Lue CS, Vobornik I, Yarmoff JA, Agarwal A, Wang L, Zhang L, Bondino F, Politano A
TITLE: Transition-Metal Dichalcogenide NiTe₂: An Ambient-Stable Material for Catalysis and Nanoelectronics
JOURNAL/BOOK : *Advanced Functional Materials*, Vol. 30, 200915 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 16.386

AUTHORS: D'Olimpio G, Genuzio F, Montes TO, Paolucci V, Kuo CN, Al Taleb A, Lue CS, Torelli P, Farías D, Locatelli A, Boukhvalov DW, Cantalini C, Politano A
TITLE: Charge Redistribution Mechanisms in SnSe₂ Surfaces Exposed to Oxidative and Humid Environments and Their Related Influence on Chemical Sensing
JOURNAL/BOOK : *The Journal of Physical Chemistry Letters*, Vol. 11, 9003-9011 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 6.71

AUTHORS: Paolucci V, D'Olimpio G, Lozzi L, Mio AM, Ottaviano L, Nardone M, Nicotra G, Le-Cornec P, Cantalini C, Politano A
TITLE: Sustainable Liquid-Phase Exfoliation of Layered Materials with Nontoxic Polarclean Solvent
JOURNAL/BOOK : *ACS Sustainable Chemistry & Engineering*, doi:10.1021/acssuschemeng.0c04191 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 7.632

AUTHORS: D'Olimpio G, Nappini S, Vorokhta M, Lozzi L, Genuzio F, Menteş TO, Paolucci V, Gürbulak B, Duman S, Ottaviano L, Locatelli A, Bondino F, Boukhvalov DW, Politano A
TITLE: Enhanced Electrocatalytic Activity in GaSe and InSe Nanosheets: The Role of Surface Oxides
JOURNAL/BOOK : *Advanced Functional Materials*, Vol. 30, 2005466 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 16.836

AUTHORS: Guo C, Hu Y, Chen G, We D, Zhang L, Chen Z, Guo W, Xu H, Kuo CN, Lue CS, Xiangyan Bo, Wan X, Wang L, Politano A, Chen X, Lu W
TITLE: Anisotropic ultrasensitive PdTe₂-based phototransistor for room-temperature long-wavelength detection
JOURNAL/BOOK : *Science Advances*, Vol. 6, eabb6500 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 13.116

AUTHORS: Paolucci V, D'Olimpio G, Kuo CN, Lue CS, Boukhvalov DW, Cantalini C, Politano A
TITLE: Self-Assembled SnO₂/SnSe₂ Heterostructures: A Suitable Platform for Ultrasensitive NO₂ and H₂ Sensing
JOURNAL/BOOK : *ACS Applied Materials & Interfaces*, Vol. 12, 34362-34369 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 8.758

AUTHORS: Serri M, Cucinotta G, Poggini L, Serrano G, Sainctavit P, Strychalska-Nowak J, Politano A, Bonaccorso F, Caneschi A, Cava RJ, Sessoli R, Ottaviano L, Klimczuk T, Pellegrini V, Mannini M
TITLE: Enhancement of the Magnetic Coupling in Exfoliated CrCl₃ Crystals Observed by Low-Temperature Magnetic Force Microscopy and X-ray Magnetic Circular Dichroism
JOURNAL/BOOK : *Advanced Materials*, Vol. 32, 2000566 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 27.398

AUTHORS: Guo C, Guo WL, Xu H, Zhang L, Chen C, D'Olimpio G, Kuo CN, Lue CS, Politano A, Wang L, Chen X, Lu W Xiangyan Bo, Xiangang Wan, Lin Wang, Antonio Politano, Xiaoshuang Chen, Wei Lu
TITLE: Ultrasensitive ambient-stable SnSe₂-based broadband photodetectors for room-temperature IR/THz energy conversion and imaging
JOURNAL/BOOK : *2D Materials*, Vol. 7, 035026 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 7.140

AUTHORS: Despoja V, Radović I, Politano A, Mišković ZL
TITLE: Insights on the Excitation Spectrum of Graphene Contacted with a Pt Skin
JOURNAL/BOOK : *Nanomaterials*, Vol. 4, 703 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 4.324

AUTHORS: Elmaghraoui D, Politano A, Jaziri S
TITLE: Photothermal response of plasmonic nanofillers for membrane distillation
JOURNAL/BOOK : The Journal of Chemical Physics, Vol. 152, 114102 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 2.991

AUTHORS: Kazim S, Ali M, Palleschi S, D'Olimpio G, Mastrippolito D, Politano A, Gunnella R, Di Cicco A, Renzelli M, Moccia G, Cacioppo OA, Alfonsetti R, Strychalska-Nowak J, Klimczuk T, Cava R, Ottaviano L
TITLE: Mechanical exfoliation and layer number identification of single crystal monoclinic CrCl₃
JOURNAL/BOOK : Nanotechnology, Vol. 31, 395706 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 3.551

AUTHORS: Curreli N, Serri M, Spirito D, Lago E, Petroni E, Martín-García B, Politano A, Gürbulak, Duman S, Krahne R, Pellegrini V, Francesco Bonaccorso
TITLE: Liquid Phase Exfoliated Indium Selenide Based Highly Sensitive Photodetectors
JOURNAL/BOOK : Advanced Functional Materials, Vol. 30, 1908427 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 16.836

AUTHORS: D'Olimpio G, Boukhvalov DW, Fujii J, Torelli P, Marchionni A, Filippi J, Kuo CN, Edla R, Ottaviano L, Lue CS, Vizza F, Nappini S, Politano A
TITLE: Catalytic activity of PtSn₄: Insights from surface-science spectroscopies
JOURNAL/BOOK : Applied Surface Science, Vol. 514, 145925 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 6.182

AUTHORS: Boukhvalov DW, Marchionni A, Filippi J, Kuo CN, Fujii J, Edla R, Nappini S, D'Olimpio G, Ottaviano L, CS Lue, Torelli P, Vizza F, Politano A
TITLE: Efficient hydrogen evolution reaction with platinum stannide PtSn₄ via surface oxidation
JOURNAL/BOOK : Journal of Materials Chemistry A, Vol. 8, 2349-2355 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 11.301

AUTHORS: Anemone G, Garnica M, Zappia M, Casado Aguilar P, Al Taleb A, Kuo CN, Lue CS, Politano A, Benedek G, Vázquez De Parga AL, Miranda R, Farías D
TITLE: Experimental determination of surface thermal expansion and electron–phonon coupling constant of 1T-PtTe₂
JOURNAL/BOOK : 2D Materials, Vol. 7, 025007 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 7.140

AUTHORS: Palleschi S, D'Olimpio G, Benassi P, Nardone M, Alfonsetti R, Moccia G, Renzelli M, Cacioppo OA, Hichri A, Jaziri S, Politano A, Ottaviano L
TITLE: On the role of nano-confined water at the 2D/SiO₂ interface in layer number engineering of exfoliated MoS₂ via thermal annealing
JOURNAL/BOOK : 2D Materials, Vol. 7, 025001 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 7.140

AUTHORS: Boukhvalov DW, Paolucci V, D'Olimpio G, Cantalini C, Politano A
TITLE: Chemical reactions on surfaces for applications in catalysis, gas sensing, adsorption-assisted desalination and Li-ion batteries: opportunities and challenges for surface science
JOURNAL/BOOK : Physical Chemistry Chemical Physics, doi:10.1039/D0CP03317K (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 3.567

AUTHORS: Sadhukhan K, Politano A, Agarwal A
TITLE: Novel undamped gapless plasmon mode in a tilted type-II Dirac semimetal
JOURNAL/BOOK : Physical Review Letters, Vol. 124, 046803 (2020)
KEY : A
DATE OF PUBLICATION():* 2020
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 8.385

AUTHORS: Zhang L, Chen Z, Zhang K, Wang L, Xu H, Han L, Guo W, Yang Y, Kuo CN, Lue CS, Mondal D, Fuji J, Vobornik I, Ghosh B, Agarwal A, Xing H, Chen X, Politano A, Lu W
TITLE: High-frequency rectifiers based on type-II Dirac fermions
JOURNAL/BOOK : Nature Communications, Vol. 12, 1 (2021)
KEY : A
DATE OF PUBLICATION():* 2021
*MOST OUTSTANDING ASPECTS(**):* 2019 Impact factor 12.121

Book chapters

AUTHORS: Politano A.
TITLE: Plasmonic excitations in systems exhibiting quantum well states
JOURNAL/BOOK TITLE: Quantum Wells: Theory, Fabrication and Applications, (Ed. Frank Columbus), Nova Science Publishers, New York, (2009) *KEY: CB*
DATE OF PUBLICATION ():* 2009
*MOST OUTSTANDING ASPECTS (**):* Invited chapter

AUTHORS: Politano A..
TITLE: Plasmon dispersion in two-dimensional electron gases on metal substrates
JOURNAL/BOOK TITLE: Plasmons: Theory and Applications, (Ed. Frank Columbus), Nova Science Publishers, New York *KEY: CB*
DATE OF PUBLICATION ():* 2010
*MOST OUTSTANDING ASPECTS (**):* Invited chapter

AUTHORS: Politano A..
TITLE: Influence of electron quantum confinement on the electronic response of metal/metal interfaces
JOURNAL/BOOK TITLE: The Annual Reviews in Plasmonics, (Ed. C. G. Geddes), in press (2010) Institute of Fluorescence, Baltimore (USA) *KEY: CB*
DATE OF PUBLICATION ():* 2010
*MOST OUTSTANDING ASPECTS (**):* Invited chapter. Included in ISI database

AUTHORS: Politano A.

TITLE: Dispersion and damping of plasmonic excitations in metal/metal interfaces
JOURNAL/BOOK TITLE: Plasmons: Structure, Properties and Applications, (Ed. Frank Columbus), Nova Science Publishers, New York (2011) KEY: CB
DATE OF PUBLICATION (*): 2011
MOST OUTSTANDING ASPECTS (**): Invited chapter.

AUTHORS: Politano A., Chiarello G.
TITLE: Collective modes in graphene/metal interfaces probed by electron energy loss spectroscopy
JOURNAL/BOOK TITLE: Innovative Graphene Technologies: Development, Characterization and Evaluation, (Ed. Atul Tiwary), Smithers Rapra Technology (2013) KEY: CB
DATE OF PUBLICATION (*): 2013
MOST OUTSTANDING ASPECTS (**): Invited chapter.

AUTHORS: Politano A., Chiarello G.
TITLE: Probing collective excitations in graphene/metal interfaces by high-resolution electron energy loss spectroscopy measurements
JOURNAL/BOOK TITLE: Graphene Science Handbook: Electrical and Optical Properties, CRC Press, Taylor & Francis Group (2013) KEY: CB
DATE OF PUBLICATION (*): 2015
MOST OUTSTANDING ASPECTS (**): Invited chapter.

AUTHORS: Politano A., Chiarello G.
TITLE: Collective Excitations in Monolayer Graphene on Metals: Phonons and Plasmons
JOURNAL/BOOK TITLE: Exotic Properties of Carbon Nanomatter, Springer (2015) KEY: CB
DATE OF PUBLICATION (*): 2015
MOST OUTSTANDING ASPECTS (**): Invited chapter.

AUTHORS: Politano A, Chiarello G
TITLE: Electron Scattering Studies on the Growth of Monolayer Graphene Coating on Metal Surfaces
BOOK TITLE: Comprehensive Guide for Nanocoatings Technology, Vol. 2: Characterization and Reliability, Novapublisher (2015) KEY: CB
DATE OF PUBLICATION (*): 2015
MOST OUTSTANDING ASPECTS (**): Invited chapter

AUTHORS: Horing NJM, Iurov A, Gumbey G, Politano A, Chiarello G
TITLE: Recent Progress on Nonlocal Graphene Surface Plasmons
BOOK TITLE: Low-Dimensional and Nanostructured Materials and Devices, Springer (2016) KEY: CB
DATE OF PUBLICATION (*): 2016
MOST OUTSTANDING ASPECTS (**): Invited chapter.

AUTHORS: Alfano M, Lamuta C, Chiarello G, Politano A
TITLE: Recent Progress on Nonlocal Graphene Surface Plasmons
BOOK TITLE: Graphita- Selected papers from the Workshop on Synthesis, Characterization, and Technological Exploitation of Graphene and 2D Materials Beyond Graphene, Springer (2017) KEY: CB
DATE OF PUBLICATION (*): 2017
MOST OUTSTANDING ASPECTS (**): Invited chapter.

AUTHORS: Gugliuzza A, Politano A, Drioli E
TITLE: Two-dimensional materials for membranes
BOOK TITLE: Nanostructured Materials Membranes, Pan Stanford Publishing, Singapore (2018) KEY: CB
DATE OF PUBLICATION (*): 2018
MOST OUTSTANDING ASPECTS (**): Invited chapter.

AUTHORS: Gugliuzza A, Politano A, Drioli E
TITLE: Graphene-Based Membranes for Water Desalination Applications
BOOK TITLE: Graphene-Based Membranes for Mass Transport Applications, Royal Society of Chemistry (2018) KEY: CB
DATE OF PUBLICATION (*): 2018
MOST OUTSTANDING ASPECTS (**): Invited chapter.

INVITED TALKS AND SEMINARS (N. 10 INVITED TALKS AND N. 7 INVITED SEMINARS)

TITLE: Probing surface chemicals bonds in alkali-doped single crystals and bimetallic surfaces by electron energy loss spectroscopy

Seminar at Facultad de Ciencias, Universidad Autónoma de Madrid, Spain

November, 20th 2008

TITLE: Vibrational and electronic properties of metal/metal interfaces

Seminar at Donostia International Physics Center, DIPC, San Sebastian, Spain

December, 1st 2009

TITLE: Graphene vibrational spectroscopy

Carbon Topology Workshop

Erice, Italy

June, 21th 2013

TITLE: Angle-resolved energy loss spectroscopy experiments on graphene/metal interfaces and on topological insulators: a powerful tool for investigating vibrational, elastic and electronic properties

Seminar at CNR-S3, Modena, Italy

November, 27th 2013

TITLE: Angle-resolved energy loss spectroscopy experiments on graphene/metal interfaces and on topological insulators: a powerful tool for investigating vibrational, elastic and electronic properties

Seminar at Department of Physics, University of L'Aquila, Italy

December, 2nd 2013

TITLE: Collective modes in graphene and topological insulators

Italy-China Workshop on graphene

Dalian, China

September, 19th 2014

TITLE: Thermoplasmonic membrane distillation for seawater desalination

Surface plasmons and plasmonics Workshop

Santa Margherita Ligure, Italy

June, 10th 2015

TITLE: Plasmon modes in topological insulators: from basic research to plasma-wave THz photodetection

New Trends in Topological Insulators Workshop

San Sebastian, Spain

July, 10th 2015

TITLE: Surface chemical reactions at epitaxial graphene and materials "beyond graphene"

GraphITA- A Multidisciplinary and Intersectorial European Workshop on Synthesis, Characterization and Technological Exploitation of Graphene and 2D Materials Beyond Graphene

Bologna, Italy

September, 14th 2015

TITLE: Surface chemical reactions at epitaxial graphene and materials "beyond graphene"

Seminar at Department of Physics, University of Genova, Italy

April, 21th 2016

TITLE: Surface chemical reactions at epitaxial graphene and materials "beyond graphene"

II edition of the Italy-China Workshop on graphene

Genova, Italy

April, 24th 2016

TITLE: An atlas of two-dimensional materials "beyond graphene": status and prospect

Italy-Republic of Korea workshop on science and technology of materials "beyond graphene"

Seoul, Republic of Korea

May 2016

TITLE: Surface chemical reactions at epitaxial graphene and materials "beyond graphene"

Third international conference on scattering of atoms and molecules from surfaces

Bergen, Norway

August 2016

TITLE: Surface chemical reactions at epitaxial graphene and materials "beyond graphene"
Seminar at Department of Physics and Chemistry, University of L'Aquila, Italy
November, 15th 2016

TITLE: Surface chemical reactions at epitaxial graphene and materials "beyond graphene"
Materials 2016 Conference
Catania, Italy
December, 16th 2016

TITLE: Surface chemical reactions at epitaxial graphene and materials "beyond graphene"
IFIMAC, Universidad Autonoma de Madrid
Madrid, Spain
September, 12th 2017

TITLE: Photothermal membrane distillation for seawater desalination
Nanoinnovation 2017 (invited presentation for the winner of the NEST Prize)
Roma, Italy
September, 26th 2017

TITLE: Science and technology of two-dimensional semiconductors
E-MRS Spring Meeting (Symposium T)
Nice, France
May 2019

TITLE: Surface science with Dirac materials (topological insulators, Dirac semimetals): contribution from high-resolution electron energy loss spectroscopy

Forschungszentrum Jülich, Germany
June, 4th 2019

TITLE: Plasmons in Dirac/Weyl materials
Fourth international conference on scattering of atoms and molecules from surfaces
Madrid, Spain
September, 24th 2019

TITLE: PtTe₂, PdTe₂ and NiTe₂: ambient-stable transition-metal dichalcogenides for catalysis, nanoelectronics and plasmonics
Israel-Italy workshop on 2D materials
Tel Aviv, Israel
November, 24th 2019

CONTRIBUTED PRESENTATIONS IN CONGRESSES

AUTHORS: Politano A. , Agostino R. G. , Colavita E. , Formoso V. , Chiarello G.
TITLE: Electronic properties of quantum dots of sodium on Cu(111) and their interaction with water
TYPE OF PRESENTATION: Oral presentation
CONGRESS: NanoSEA- Nanostructures Self-Assembling
MEETING PLACE: Aix en Provence, France
YEAR: 2006

AUTHORS: Politano A. , Agostino R. G. , Colavita E. , Formoso V. , Tenuta L., Chiarello G.
TITLE: Vibrational measurements of Na+CO/Ni(111)
TYPE OF PRESENTATION: Oral presentation
CONGRESS: 2nd NanoSMat: The International Conference on Surfaces, Coatings and Nanostructured Materials
MEETING PLACE: Portimao, Portugal
YEAR: 2007

AUTHORS: Politano A. , Agostino R. G. , Colavita E. , Formoso V. , Chiarello G.
TITLE: Collective excitations in nanoscale thin alkali films: Na/Cu(111).
TYPE OF PRESENTATION: Poster presentation

CONGRESS: 2nd NanoSMat: The International Conference on Surfaces, Coatings and Nanostructured Materials

MEETING PLACE: *Portimao, Portugal*

YEAR: 2007

AUTHORS: Politano A. , Formoso V. , Chiarello G.

TITLE: New insights in alkali coadsorption with CO and O

TYPE OF PRESENTATION: *Poster presentation*

CONGRESS: 2nd NanoSEA- Nanostructures Self-Assembling

MEETING PLACE: *Frascati (Rome), Italy*

YEAR: 2008

AUTHORS: Politano A. , Formoso V. , Chiarello G.

TITLE: Dispersion and damping of surface plasmon in Ag thin films on metallic substrates

TYPE OF PRESENTATION: *Poster presentation*

CONGRESS: 2nd NanoSEA- Nanostructures Self-Assembling

MEETING PLACE: *Frascati (Rome), Italy*

YEAR: 2008

AUTHORS: Politano A. , Formoso V. , Chiarello G.

TITLE: Interference effects in collective excitations in nanoscale thin Ag layers

TYPE OF PRESENTATION: *Oral presentation*

CONGRESS: 2nd NanoSEA- Nanostructures Self-Assembling

MEETING PLACE: *Frascati (Rome), Italy*

YEAR: 2008

AUTHORS: Politano A. , Formoso V. , Chiarello G.

TITLE: New insights in alkali coadsorption with oxygen

TYPE OF PRESENTATION: *Oral presentation*

CONGRESS: 13th Workshop on Dynamical Phenomena at Surfaces

MEETING PLACE: *Cambridge, United Kingdom*

YEAR: 2008

AUTHORS: Politano A. , Formoso V. , Chiarello G.

TITLE: Surface plasmon dispersion in thin silver films

TYPE OF PRESENTATION: *Poster presentation*

CONGRESS: 13th Workshop on Dynamical Phenomena at Surfaces

MEETING PLACE: *Cambridge, United Kingdom*

YEAR: 2008

AUTHORS: Politano A. , Formoso V. , Chiarello G.

TITLE: Probing electronic collective excitations in nanoscale thin silver layers on metallic substrates

TYPE OF PRESENTATION: *Oral presentation*

CONGRESS: 3rd NanoSMat: The International Conference on Surfaces, Coatings and Nanostructured Materials

MEETING PLACE: *Barcelona, Spain*

YEAR: 2008

AUTHORS: Fladischer K., Politano A. , Farias D. , Miranda R.

TITLE: Investigation of the structure of TCNQ molecules on Cu(100) by Helium Atom Scattering

TYPE OF PRESENTATION: *Oral*

CONGRESS: *DPG Spring Meeting*

MEETING PLACE: *Dresden, Germany*

YEAR: 2009

AUTHORS: Fladischer K., Urban C., Politano A. , Farias D. , Miranda R.

TITLE: TCNQ molecules on Cu(100) investigated by Helium Atom Scattering

TYPE OF PRESENTATION: *Poster*

CONGRESS: 26th European Conference on Surface Science (Ecos))

MEETING PLACE: *Parma, Italia*

YEAR: 2009

AUTHORS: Politano A., Minniti M., Farias D., Miranda R.
TITLE: Growth of graphene on Ru(0001) investigated by Helium Atom Scattering
TYPE OF PRESENTATION: Poster
CONGRESS: 26th European Conference on Surface Science (Ecos) *(Ecos)*
MEETING PLACE: Parma, Italia
YEAR: 2009

AUTHORS: Politano A., Minniti M., Farias D., Miranda R.
TITLE: Graphene on Ru(0001): the ultimate mirror for He atoms?
TYPE OF PRESENTATION: Oral
CONGRESS: 26th European Conference on Surface Science (Ecos) *(Ecos)*
MEETING PLACE: Parma, Italia
YEAR: 2009

AUTHORS: Minniti M., Politano A., Farias D., Miranda R.
TITLE: He, Ne and Ar diffraction from clean Ru(0001)
TYPE OF PRESENTATION: Poster
CONGRESS: 26th European Conference on Surface Science (Ecos) *(Ecos)*
MEETING PLACE: Parma, Italia
YEAR: 2009

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.
TITLE: Periodically Rippled Graphene: An Electronically and Structurally Nanostructured Material
TYPE OF PRESENTATION: Oral
CONGRESS: 10th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures (ACSIN)
MEETING PLACE: Granada, Spain
YEAR: 2009

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.
TITLE: Periodically Rippled Graphene: An Electronically and Structurally Nanostructured Material
TYPE OF PRESENTATION: Oral
CONGRESS: Graphene 2009
MEETING PLACE: Benasque, Spain
YEAR: 2009

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.
TITLE: Periodically Rippled Graphene: An Electronically and Structurally Nanostructured Material
TYPE OF PRESENTATION: Oral
CONGRESS: Workshop Nano09- Shaping the future
MEETING PLACE: Braga, Portugal
YEAR: 2009

AUTHORS: Politano A., Minniti M., Farias D., Miranda M.
TITLE: A He diffraction study of graphene on Ru(0001)
TYPE OF PRESENTATION: Oral
CONGRESS: Symposium Consolider on Molecular Nanoscience
MEETING PLACE: Miraflores de la Sierra, Spain
YEAR: 2009

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.
TITLE: Periodically Rippled Graphene: An Electronically and Structurally Nanostructured Material
TYPE OF PRESENTATION: Oral
CONGRESS: Eson'09
MEETING PLACE: Peñíscola, Spain
YEAR: 2010

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.

TITLE: Electronic and Geometric Corrugation of Periodically Rippled, Self-nanostructured Graphene Epitaxially Grown on Ru(0001)

TYPE OF PRESENTATION: Poster

CONGRESS: Fuerza y Tunel 2010

MEETING PLACE: Tarragona, Spain

YEAR: 2010

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.

TITLE: Periodically Rippled Graphene: An Electronically and Structurally Nanostructured Material

TYPE OF PRESENTATION: Oral

CONGRESS: 217th ECS Meeting

MEETING PLACE: Vancouver, Canada

YEAR: 2010

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.

TITLE: Periodically Rippled Graphene: An Electronically and Structurally Nanostructured Material

TYPE OF PRESENTATION: Oral

CONGRESS: Passion for Interfaces

MEETING PLACE: San Sebastian, Spain

YEAR: 2010

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.

TITLE: Periodically Rippled Graphene: An Electronically and Structurally Nanostructured Material

TYPE OF PRESENTATION: Oral

CONGRESS: International Workshop on Molecular Materials

MEETING PLACE: Sanxenxo, Spain

YEAR: 2010

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.

TITLE: Electronic and Geometric Corrugation of Periodically Rippled, Self-nanostructured Graphene Epitaxially Grown on Ru(0001)

TYPE OF PRESENTATION: Oral

CONGRESS: IVC-18

MEETING PLACE: Beijing, China

YEAR: 2010

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.

TITLE: Electronic and Geometric Corrugation of Periodically Rippled, Self-nanostructured Graphene Epitaxially Grown on Ru(0001)

TYPE OF PRESENTATION: Oral

CONGRESS: Fullerene Silver Anniversary Symposium

MEETING PLACE: Hersonissov, Greece

YEAR: 2010

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.

TITLE: Electronic and Geometric Corrugation of Periodically Rippled, Self-nanostructured Graphene Epitaxially Grown on Ru(0001)

TYPE OF PRESENTATION: Oral

CONGRESS: 3rd EuChemS, Chemistry Congress

MEETING PLACE: Nuremberg, Germany

YEAR: 2010

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.

TITLE: Electronic and Geometric Corrugation of Periodically Rippled, Self-nanostructured Graphene Epitaxially Grown on Ru(0001)

TYPE OF PRESENTATION: Oral

CONGRESS: Nanoscale Pattern Formation at Surfaces

MEETING PLACE: El Escorial, Spain

YEAR: 2011

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.

TITLE: Electronic and Geometric Corrugation of Periodically Rippled, Self-nanostructured Graphene Epitaxially Grown on Ru(0001)

TYPE OF PRESENTATION: Poster

CONGRESS: ImagineNano- Graphene 2011

MEETING PLACE: Bilbao, Spain

YEAR: 2011

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.

TITLE: Electronic and Geometric Corrugation of Periodically Rippled, Self-nanostructured Graphene Epitaxially Grown on Ru(0001)

TYPE OF PRESENTATION: Oral

CONGRESS: Carbon Nanoforms 2011

MEETING PLACE: Toledo, Spain

YEAR: 2011

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.

TITLE: Electronic and Geometric Corrugation of Periodically Rippled, Self-nanostructured Graphene Epitaxially Grown on Ru(0001)

TYPE OF PRESENTATION: Oral

CONGRESS: VI International Symposium on Surface Science 2011

MEETING PLACE: Funabori, Japan

YEAR: 2011

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.

TITLE: Electronic and Geometric Corrugation of Periodically Rippled, Self-nanostructured Graphene Epitaxially Grown on Ru(0001)

TYPE OF PRESENTATION: Oral

CONGRESS: Symposium on Physics at the Nanoscale

MEETING PLACE: Madrid, Spain

YEAR: 2011

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.

TITLE: Electronic and Geometric Corrugation of Periodically Rippled, Self-nanostructured Graphene Epitaxially Grown on Ru(0001)

TYPE OF PRESENTATION: Oral

CONGRESS: 5th International symposium on defect and material mechanics

MEETING PLACE: Sevilla, Spain

YEAR: 2011

AUTHORS: Borca B., Barja S., Garnica M., Hinarejos J. J., Politano A., Minniti M., Farias D., Vázquez de Parga A. L., Miranda R.

TITLE: Electronic and Geometric Corrugation of Periodically Rippled, Self-nanostructured Graphene Epitaxially Grown on Ru(0001)

TYPE OF PRESENTATION: Oral

CONGRESS: *Symposium on Material Science*

MEETING PLACE: *Kyoto, Japan*

YEAR: 2011

AUTHORS: Politano A., Marino A. R., Formoso V., Farias D., Miranda R., Chiarello G.

TITLE: *Angle-resolved Energy Loss Spectroscopy Experiments on Epitaxial Graphene on Pt(111): a Powerful Tool for Investigating Vibrational, Elastic and Electronic Properties.*

TYPE OF PRESENTATION: *Poster*

CONGRESS: *ImagineNano- Graphene 2011*

MEETING PLACE: *Bilbao, Spain*

YEAR: 2011

AUTHORS: Politano A., Marino A. R., Formoso V., Farias D., Miranda R., Chiarello G.

TITLE: *Angle-resolved Energy Loss Spectroscopy Experiments on Epitaxial Graphene on Pt(111): a Powerful Tool for Investigating Vibrational, Elastic and Electronic Properties.*

TYPE OF PRESENTATION: *Oral*

CONGRESS: *Graphita 2011*

MEETING PLACE: *L'Aquila, Italy*

YEAR: 2011

AUTHORS: Politano A., Marino A. R., Formoso V., Chiarello G.

TITLE: *Evidence of acoustic plasmons on epitaxial graphene on Pt(111)*

TYPE OF PRESENTATION: *Poster*

CONGRESS: *Workshop on Quantum phenomena in graphene, other low-dimensional materials, and optical lattices*

MEETING PLACE: *Erice, Italy*

YEAR: 2011

AUTHORS: Politano A., Marino A. R., Formoso V., Chiarello G.

TITLE: *Angle-resolved Energy Loss Spectroscopy Experiments on Epitaxial Graphene on Pt(111): a Powerful Tool for Investigating Vibrational, Elastic and Electronic Properties.*

TYPE OF PRESENTATION: *Oral*

CONGRESS: *Carbomat 2011*

MEETING PLACE: *Catania, Italy*

YEAR: 2011

AUTHORS: Politano A., Marino A. R., Formoso V., Chiarello G., Farias D., Miranda R.

TITLE: *Evidence of acoustic plasmons on epitaxial graphene on Pt(111)*

TYPE OF PRESENTATION: *Oral*

CONGRESS: *GRANADA 2012*

MEETING PLACE: *Granada, Spain*

YEAR: 2012

AUTHORS: Politano A., Marino A. R., Formoso V., Chiarello G.

TITLE: *Evidence of acoustic plasmons on epitaxial graphene on Pt(111)*

TYPE OF PRESENTATION: *Poster*

CONGRESS: *Materials for Renewable Energy*

MEETING PLACE: *Erice, Italy*

YEAR: 2012

AUTHORS: Politano A., Formoso V., Chiarello G.

TITLE: *Angle-resolved Energy Loss Spectroscopy Experiments on Epitaxial Graphene on Pt(111): a Powerful Tool for Investigating Vibrational, Elastic and Electronic Properties.*

TYPE OF PRESENTATION: *Oral*

CONGRESS: *FisMat 2013*

MEETING PLACE: *Milan, Italy*

YEAR: 2013

AUTHORS: Lodi Rizzini A, De Renzi V, Biagi R, Corradini V, Pacilé D, Politano A, Del Pennino U

TITLE: *Terahertz Optical Modes of Supported Graphene Bilayer*

TYPE OF PRESENTATION: Oral
CONGRESS: Vibrations at Surfaces
MEETING PLACE: San Sebastian, Spain
YEAR: 2015

AUTHORS: Lodi Rizzini A, De Renzi V, Biagi R, Corradini V, Pacilé D, Politano A, Del Pennino U
TITLE: Terahertz Optical Modes of Supported Graphene Bilayer
TYPE OF PRESENTATION: Oral
CONGRESS: 31th ECOSS-European Conference on Surface Science 2015
MEETING PLACE: Barcelona, Spain
YEAR: 2015

AUTHORS: Nicotra G., Mio AM, Cupolillo A, Hu J, Wei J, Mao ZQ, Deretsis I, Politano A, Spinella C
TITLE: STEM and EELS Investigation on Black Phosphorus at Atomic Resolution
TYPE OF PRESENTATION: Oral
CONGRESS: Microscopy and microanalysis 2015
MEETING PLACE: Portland, USA
YEAR: 2015

AUTHORS: Lodi Rizzini A, De Renzi V, Biagi R, Corradini V, Pacilé D, Politano A, Del Pennino U
TITLE: Terahertz Optical Modes of Supported Graphene Bilayer
TYPE OF PRESENTATION: Oral
CONGRESS: GraphITA
MEETING PLACE: Bologna, Italy
YEAR: 2015

AUTHORS: Nicotra G., Mio AM, Cupolillo A, Hu J, Wei J, Mao ZQ, Deretsis I, Politano A, Spinella C
TITLE: STEM and EELS Investigation on Black Phosphorus at Atomic Resolution
TYPE OF PRESENTATION: Oral
CONGRESS: Fosforene day
MEETING PLACE: Firenze, Italy
YEAR: 2015

AUTHORS: Viti L, Hu J, Coquillat D, Knap W, Tredicucci A, Politano A, Vitiello MS
TITLE: Black Phosphorus Terahertz Photodetectors
TYPE OF PRESENTATION: Oral
CONGRESS: Fosforene day
MEETING PLACE: Firenze, Italy
YEAR: 2015

AUTHORS: Samnakay R, Liu G, Rumyantsev S, Politano A, Gürbulak B, Duman S, Shur M and Balandin AA
TITLE: Sweep-Dependent Electrical Switching in InSe Thin-Film FETs
TYPE OF PRESENTATION: Oral
CONGRESS: MRS Spring Meeting 2016
MEETING PLACE: Phoenix, USA
YEAR: 2016

AUTHORS: Viti L, Coquillat D, Politano A, Kokh KA, Aliev ZS, Babanly MB, Tereschchenko OE, Knap W, Chulkov EV, Vitiello MS
TITLE: Probing topological insulators surface states via plasma-wave terahertz detection
TYPE OF PRESENTATION: Oral
CONGRESS: Quantum Sensing and Nano Electronics and Photonics XIII
MEETING PLACE: San Francisco, USA
YEAR: 2016

AUTHORS: Nicotra G, Politano A, Capitani M, Ienco A, Mio AM, Mao ZQ, Molle A, Peruzzini M, Spinella C
TITLE: Atomic structure and electronic properties of phosphorene
TYPE OF PRESENTATION: Oral
CONGRESS: E-MRS 2016 Spring Meeting, Symposium Z: Two-dimensional crystals and van der Waals heterostructures for nanoelectronics

MEETING PLACE: Lille, France

YEAR: 2016

AUTHORS: Larciprete R, Colonna S, Ronci F, Flammini R, Lacovig P, Apostol NG, Politano A, Feulner P, Menzel D, Lizzit S

TITLE: Self-assembly of graphene nanoblister sealed to a bare metal surface

TYPE OF PRESENTATION: Oral

CONGRESS: European Conference on Nanofilms (ECNF 2016)

MEETING PLACE: Bilbao, Spain

YEAR: 2016

AUTHORS: Larciprete R, Colonna S, Ronci F, Flammini R, Lacovig P, Apostol NG, Politano A, Feulner P, Menzel D, Lizzit S

TITLE: Self-assembly of graphene nanoblister sealed to a bare metal surface

TYPE OF PRESENTATION: Oral

CONGRESS: Materials 2016

MEETING PLACE: Aci Castello (CT), Italy

YEAR: 2016