

UNIVERSITÀ DEGLI STUDI DI MILANO

selezione pubblica per n. 1 posto/i di Ricercatore a tempo determinato ai sensi dell'art.24, comma 3, lettera a) della Legge 240/2010 per il settore concorsuale 02/B2 Fisica Teorica della Materia

settore scientifico-disciplinare FIS/03 - Fisica della Materia

presso il Dipartimento di FISICA,

(avviso bando pubblicato sulla G.U. n. 51 del 28/6/2019) Codice concorso 4042

SIMONA ACHILLI

CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	ACHILLI
NOME	SIMONA
DATA DI NASCITA	29/11/1982

ORCID: <https://orcid.org/0000-0001-6812-5043>

CURRENT RESEARCH POSITION

Feb. 2019 – Today

Post Doctoral Fellowship – Catalan Institute of Nanoscience and Nanotechnology. Funded by “Nanoscale Foundries and Fine Analysis” European Project (NFFA.eu)
Scientist in charge for NFFA research projects, namely:
“Topological valley currents in graphene/hBN”.
“Tuning the magnetoresistance of carbon nanotubes by functionalization with magnetic molecules”.

EDUCATION

May 3rd 2010

PhD in Materials Science – Università di Milano Bicocca
and

European Doctorate in Physics and Chemistry of Advanced Materials -
Dissertation: *“Spectral properties of adsorbates on metal surfaces via the embedding method”.*

Feb. - May 2008

Attending Courses of the Master in Nanoscience - University of Basque Countries, San Sebastian.

“Nanostructural Properties” - 112.5 hours (final grade: EXCELLENT).

“Experimental Techniques II” - 112.5 (final grade: 8/10).

“Fundamental of Nanostructure characterization” - 75 hours (final grade: 8.7/10).

Jul. 17th 2006

*Achieved in 1 year
and 8 months*

Master Degree in Physics (Laurea Magistrale) - Università di Milano Bicocca.
Grade: 110/110 cum laude.

Thesis title: *“Studio teorico delle proprietà elettroniche e magnetiche di film sottili di Fe/Cu(001)”.*

Oct. 4th 2004

Achieved in 3 years

Bachelor Degree in Physics (Laurea Triennale) - Università di Milano Bicocca.
Grade: 110/110 cum laude.

Thesis title: *“Studio teorico computazionale di spettri Auger di adatom su superfici metalliche”.*

RESEARCH EXPERIENCE

- Feb. 2019 – Jun. 2019** **Research Collaboration** to support NFFA projects assigned to Università degli Studi di Milano.
- Feb. 2017 – Jan. 2019** **Post Doctoral Fellowship** – Università degli Studi di Milano, Dip. di Fisica (“Assegno di ricerca di tipo B” funded by NFFA European Project)
Research Project: *“Deep atomic States of Germanium dopant in Silicon”*.
- Mar. 2015 – Jan. 2017** **Post Doctoral Fellowship** – Università Cattolica del Sacro Cuore, Dip. di Fisica, Brescia.
 (“Assegno di ricerca di tipo A”)
Research Project: *“Joined theoretical and experimental investigation of physical properties of graphene interfaces”*.
- Jan. 2012 – Feb. 2015** **Post Doctoral Fellowship** - Università degli Studi di Milano, Dip. di Chimica.
 (“Assegno di ricerca di tipo A”)
Research Project: *“Theoretical study of the electronic transport in defective graphene and carbon nanostructures”*.
- Jan 2014 – Mar 2018** **Associated member** of ISTM-CNR (Milano): active collaborations with CNR researchers relative to *“Electronic transport in graphene based nanostructures”*.
- Oct. 2011 - Nov. 2011** **Visiting Researcher** - Donostia International Physics Center, San Sebastian. Opportunity of enlarging the network of international collaborations under the supervision of Prof. E. Chulkov.
- May 2010 – Apr. 2011** **Post Doctoral Fellowship** - Università di Milano Bicocca, Dip. di Scienze dei Materiali.
 (“Assegno di ricerca di tipo B” funded by Fondazione CARIPLO)
Research project: *“Theoretical study of the spin polarized tunnel microscopy”*.
- Feb. 2008 - Jun. 2008** **Visiting Researcher** - Donostia International Physics Center, San Sebastian. Research activity focused on the implementation of a DFT embedding code for the description of an isolated adatom on an extended substrate.

Three Maternity leaves:

From Sep. 2009 to Jan. 2010
From Feb. 2012 to Jul. 2012
From Jun. 2014 to Feb. 2015

PARTICIPATION TO RESEARCH GROUPS

During my research activity I joined six research groups, collaborating to research, management of research projects, supervision of students, scientific publications.

- 2006-2011: “Theory of adsorption and of solid surface group” (<http://www2.mater.unimib.it/utenti/brivio/>), Università di Milano Bicocca, Dip. di Scienze dei Materiali.
Group Leader: Prof. G. P. Brivio.
13 scientific papers published (Refs. 1-13 in the “Publication List”).
- 2012-2015: “Chemical Dynamics Theory Group” (<http://users.unimi.it/cdtg/index.php?page=members&personale=martinazzo>), Università degli Studi di Milano, Dip. di Chimica.
Group Leader: Prof. R. Martinazzo.
3 scientific papers published (Refs. 14, 18, 25 in the “Publication list”).
- 2014-2018: Associated Member of “Istituto di Scienze e Tecnologie Molecolari” (<https://www.istm.cnr.it/>), Consiglio Nazionale delle Ricerche (ISTM-CNR), Milano.

Director: Rinaldo Psaro.

3 scientific papers published (Refs. 15, 20, 28 in the "Publication list").

- 2015-2017: "Interdisciplinary Laboratories for Advanced Materials Physics (ILAMP)" (<https://centridiricerca.unicatt.it/ilamp-home>), Università Cattolica del Sacro Cuore, Dip. Di Fisica, Brescia.
Director: Prof. Gabriele Ferrini.

5 Manuscripts published + 1 reply (Refs. 16, 17, 21, 22, 26, 27 in the "Publication list").

- 2017-2019: "Solid State Physics Theory Group" (<http://www.fisica.unimi.it/ecm/home/ricerca/gruppi-di-ricerca/struttura-della-materia/spettroscopia-teorica>), Università degli Studi di Milano, Dip. di Fisica.
Group Leader: Prof. G. Onida.

6 scientific papers published (Refs. 23, 24, 30, 31, 32, 33 in the "Publication list").

- 2019 – present: "Theory and Simulation Group" (<https://icn2.cat/en/theory-and-simulation-group>), Catalan Institute of Nanoscience and Nanotechnology, Barcelona.

Group Leader: Pablo Ordejon.

Other research collaborations:

- Scanning Tunneling Microscopy Laboratory, Politecnico di Milano. Prof. A. Brambilla and Co-workers.
- Nano-LAB, Politecnico di Milano, Prof. C. Casari.
- Max Plank Institute of Microstructure Physics, Halle. Dr. P. Sessi.
- Donostia International Physics Center, San Sebastian. Prof. E. Chulkov, Prof. D. Sanchez-Portal.
- Istituto di Fotonica e Nanotecnologie – Consiglio Nazionale delle Ricerche (IFN-CNR), Dr. E. Prati.
- Institute for Nuclear and Radiation Physics, Leuven. Dr. L. da Costa Pereira.

RESEARCH INTERESTS AND COMPUTATIONAL SKILLS

My research activity concerns the theoretical study of electronic, magnetic and transport properties of surfaces and interfaces, mainly treated through ab initio Density Functional Theory methods. Since my Master Degree I studied many systems giving rise to different "Research Lines" that are summarized below. Most of my research involve collaborations with experimental groups.

Research Line 1: "Electronic transport in low dimensional heterostructures"

I adopt the Non Equilibrium Green's function theory to study the ballistic electronic transport through 2D materials and heterostructures, also in presence of an external bias. This topic is strictly related to RL1, from which my research was started, being the extended substrate approach a required guess to describe propagating electronic states.

My studies in this field concerned the electronic transport in *carbon chains* and *patterned graphene*. As main result I showed that the decoration of graphene with hydrogen dimers lines allows the confinement of electronic current analogously to what obtained in nanoribbons. I also focused on the transport properties modified by doping, considering the spin-filtering effect induced by the adsorption of magnetic atoms on graphene. Moreover I developed a *semiclassical* description of the *graphene conductivity* in diffusive regime in order to address the role of neutral scatterers in limiting the transport properties of the carbon sheet. In the framework of one NFFA projects I'm currently studying the spin dependent transport in carbon nanotubes functionalized with large metal-organic magnetic molecules.

Research Line 2: "Theoretical Spectroscopy"- This research line benefits of the strong collaboration with the experimental groups of Politecnico di Milano and of the ILAMP laboratories of Università Cattolica del Sacro Cuore. At ILAMP I spent two years as a sole theoretical post-doc supporting the interpretation of the measurements.

In this context I performed electronic structure calculation to explain inverse-, linear- and time-resolved photoemission results and I simulated STM and STS images for comparison with experiments.

The organic-metal and organic-metal oxide interfaces are the object of the ongoing collaboration with the groups of Politecnico di Milano. The interaction with the ILAMP laboratories concerned the characterization of graphene-metal systems and CNT-silicon solar cells.

One of the NFFA projects I'm currently following is aimed to the characterization of the electronic and transport properties of small-angle-twisted graphene-hBN bilayers to support scanning-gate microscopy measurements. Many thousands of atoms are needed to reproduce the long wavelength Moiré pattern of these kind of systems.

Research Line 3: **“Deep centers in semiconductors for high temperature q-bits”** - This research line arises from a collaboration with CNR-IFN and Waseda University of Tokyo in the context of a project accepted by NFFA-Europe, aimed to the characterization of excited-state electronic properties and transport of Ge-vacancy complexes in silicon. These point defects can be obtained by Ge implantation followed by thermal annealing. Through a multi-scale approach that combines ab initio + tight binding methods I have demonstrated that these defects display deep electronic levels that make them good candidates to realize q-bits working at high temperature. Moreover my theoretical analysis of the temperature activated conductance through a long one-dimensional array of these defects showed that they are characterized by a Mott-Hubbard transition to an insulating state. The insulating regime is stable also at high temperature making possible to keep the electrons bound to the defects during bit-logic operation. In the next period I plan to continue the research in this field studying the possibility to control the initialization and readout of these defects through spin-selective optical excitation.

Research Line 4: **“Extended Substrate Approach”** - In my initial research, during Bachelor, Master and PhD, I exploited the method proposed by J. Inglesfield for the ab initio study of semi-infinite surfaces and interfaces. By introducing appropriate boundary conditions, the method allows one to overcome the limit of the fictitious periodicity required in the simulations and permits to characterize interface and surface states also in term of their elastic lifetime (energy broadening due to the hybridization with the extended substrate states).

In this context, during my PhD, I have implemented some subroutines into an embedding code for the study of an isolated adatom on extended metal substrates. The major improvement achieved was related to a better description of the adatom - substrate interaction thanks to a more realistic modeling of the substrate with respect to the already available jellium model. As main outcome a joined theoretical-experimental study of interface states acting as precursors of desorption processes induced by electronic excitations was achieved.

I am an **experienced user of several ab-initio simulation packages**, such as SIESTA/TRANSIESTA, QUANTUM ESPRESSO, CRYSTAL, FLEUR.

Software authorship: I contributed to the development of an embedding code (FA code) for the description of an isolated adatom on metal surfaces modeled by a modulated potential (Ref. 12 in the Publication List).

TEACHING ACTIVITIES

- **Lecturer** (selected)– **“SIESTA school 2019”** (1 week – Nov. 2019), Belgrado, Serbia.
- **Tutor and examiner** for the course of **“Fisica Generale”** (15 hours in class + 20 hours exams) of the Master Degree in Mathematics at Università degli Studi di Milano. Academic year 2018- 2019.
- **Assistant Professor** for the course and laboratories of **“Fisica A+B”** (10 CFU, 40 hours in class + exams) of the Master Degree in Engineering Physics of Politecnico di Milano. Academic year 2018-2019.
- **Tutor and examiner** for the course of **“Fisica Generale”** (15 hours in class + 20 hours exams) of the Master Degree in Mathematics at Università degli Studi di Milano. Academic year 2017- 2018.
- **Assistant Professor** for the course and laboratories of **“Fisica A+B”** (10 CFU, 40 hours in class + exams) of the Master Degree in Engineering Physics of Politecnico di Milano. Academic year 2017-2018.
- **Lecturer** of the course **“Statistical Mathematics”** for the Master Degree in Physics of Università Cattolica del Sacro Cuore. Academic year 2015-2016.
- **Assistant Professor** for the course of **“Fisica A+B”** (10 CFU, 40 hours in class + exams) of the Master Degree in Engineering Physics of Politecnico di Milano. Academic year 2013-2014.
- **Tutor** for the laboratory activity of **“Fisica sperimentale I + B”** (27 hours in laboratory) of the Master Degree in Engineering Physics of Politecnico di Milano. Academic year 2013-2014.
- **Assistant Professor** for the course of **“Fisica sperimentale I + B”** (12 CFU, 48 hours in class + exams)

of the Master Degree in Engineering Physics of Politecnico di Milano. Academic year 2010-2011.

- **Tutor** for the laboratory activity of “**Fisica sperimentale I + B**” (15 hours in laboratory) of the Master Degree in Engineering Physics of Politecnico di Milano. Academic year 2010-2011.
- **Assistant Professor** for the course of “**Fisica sperimentale I + B**” (12 CFU, 48 hours in class + exams) of the Master Degree in Engineering Physics of Politecnico di Milano. Academic year 2008-2009.

SUPERVISION OF STUDENTS

Official co-supervisor of 3 Bachelor Students:

- 2018 – Laura Batini, Bachelor Degree in Physics, Università degli Studi di Milano.
Thesis: “First-principle simulation of core-level spectra in molecules and dependence on tautomerism”.
- 2018 – Federico Orlando, Bachelor Degree in Physics, Università degli Studi di Milano.
Thesis: “Study of the magnetic properties and spin patterning of a 2D Cr₄O₅ layer by ab initio total energy calculations”.
- 2011 – Simone Lampasona, Bachelor Degree in Physics, Università di Milano Bicocca.
Thesis: “Applicazione del metodo dello shift di fase per il calcolo degli stati legati di superfici metalliche”.

Other mentoring activity

I personally followed the thesis work of other 1 PhD student, 3 Master student and 2 Bachelor students:

- 2017 – Marco Bragato, Master Degree in Chemistry, Università degli Studi di Milano.
Thesis: “Electron transport through antiferromagnetic nanojunctions”.
- 2015 – Luca Oggioni, Bachelor Degree in Physics, Università di Milano Bicocca.
Thesis: “Computational Study of electronic and transport properties of nanoscale-GeTe”.
- 2014 – Simone Lampasona, Master Degree in Physics, Università di Milano Bicocca.
Thesis: “Influenza dei difetti di Ossigeno sul trasporto elettronico attraverso film ultrasottili di MgO inseriti tra elettrodi di Ag”.
- 2013 – Paolo Bonardi, PhD in Chemistry, Università degli Studi di Milano.
Thesis: “First principles investigation of the electronic and transport properties of carbon atom wires”.
- 2010 – Federico Guerra, Bachelor Degree in Physics, Università di Milano Bicocca.
Thesis: “Studio teorico computazionale di superfici metalliche: effetti di substrato esteso sulle proprietà elettroniche”.
- 2009 – Alessandra Zanetti, Master Degree in Physics, Università di Milano Bicocca.
Thesis: “Many-body effects in spin resolved Auger deexcitation from adatoms on metal surfaces”.

GRANTS and SCHOLARSHIPS

- **Principal Investigator** of 7 Iskra C project of high-performance computing at CINECA:

“Adatoms on Modulated surface potential via the embedding method”, 20 K-hours on SP6.

“Electronic Transport Across Graphene based Nano-junctions”, 1.2 MLN hours on FERMI (estimated value: 15.6 K-euros + VAT).

“Scattering Cross Section of Neutral Defects on Graphene”, 10 MLN hours on FERMI (estimated value: 130

K-euros + VAT).

"Ballistic conduction of phase change materials", 100 K-hours on EURORA (estimated value: 1.3 K-euros + VAT).

"Density functional characterization of morphology and electronic spectra of graphene on Pt surfaces", 5MLN hours on FERMI (estimated value: 65 K-euros + VAT).

"Deep energy levels of dopant atoms in Silicon for quantum transport", 50000 K-hours on MARCONI_A1 + 75000 on Marconi_A2. (estimated value: 1.625 K-euros + VAT).

"Interface between organic molecule and oxidized iron for spintronics", 360 K-hours on MARCONI_A2. (estimated value: 4.68 K-euros + VAT).

- **Principal Investigator** of one LISA project of high-performance computing at CINECA:

"Heterojunctions for antiferromagnetic spintronics", 4MLN hours on MARCONI_A1 and 600.000 hours on GALILEO. (estimated value: 59.8 Keuros + VAT).

- **Principal Investigator** of 2 RES project of high-performance computing on Marenosturm:

"Fully ab initio relaxation of hBN/graphene stacking layers at very small twisting angle" 1MLN hours.

"Ab initio spin transport properties of Co4/CNT" 200.000 hours (estimated value: 15.5 Keuros + VAT).

The assigned amount of computing hours has been converted in euros according to a cost/hour of 0.013 EUR/h + VAT, on the basis of the 2015 agreement between CINECA and Università degli Studi di Milano.

- **CECAM grant** for organizing the Workshop "Transiesta + Tbtrans + SISL School", 10.5 K-Euros, as **co-PI**

- **Scholarship** at the "Theory Meets Experiments" conference in Prague, June 2018.

- **Shortlisted** at the selection of CNR researcher: BANDO n° 368.17 "MATERIALI INNOVATIVI, TECNICHE AVANZATE DI CARATTERIZZAZIONE E MODELLING.

PARTECIPATION AND COORDINATION OF PROJECTS

- Project: "Imaging Magnetic Interfaces and Nanostructures for applications in spintronics (IMMAGINA)", call "Ricerca scientifica e tecnologica sui materiali avanzati – 2008", Fondazione CARIPLO (National coordinator: Prof. M. Finazzi, Politecnico di Milano).

Role:

- Scientific research activity on the project thematic during the Post-Doc (see Education).
- Collaboration to the analysis and synthesis of the obtained results for the preparation of a final report.
- Collaboration to the Project Cost Reporting.

- European Theoretical Spectroscopy Facility (ETSF, www.etsf.eu).

Role: scientist member of the Solid State Physics Theory Group of Università degli Studi di Milano.

- **Leading scientist of 4 NFFA-EUROPE projects** (www.nffa.eu):

Project ID 188: "Deep atomic states of germanium dopant in silicon", assigned to Università degli Studi di Milano.

Project ID 517: Continuation project of "Deep atomic states of germanium dopant in silicon", assigned to Università degli Studi di Milano.

Project ID 710: "Topological valley currents in graphene/hBN", assigned to Catalan Institute of Nanoscience and Nanotechnology.

Project ID 753: "Tuning the magnetoresistance of carbon nanotubes by functionalization with magnetic molecules", assigned to Catalan Institute of Nanoscience and Nanotechnology.

Role: responsible of the research activity including the interaction with the users (experimentalists).

PARTECIPATION TO EDITORIAL BOARDS:

Since March 2018: **Associated Editor** of European Physical Journal B.

REFEREE ACTIVITY:

- **Referee** of "Journal of Physics D", "Materials", "European Physical Journal B", "2D Materials".
- **Evaluator** of IskraC and IskraB projects for high performance computing projects at CINECA.

ORGANIZATION OF WORKSHOPS and SCHOOLS:

- **Member of the committee** for the organization of the "23th ETSF Workshop on Electronic Excitations", Milano, 10-14 September 2018.
- **Member of the committee** for the organization of the "Transiesta + Tbttrans + SISL School", San Sebastian, 23-30 March 2020.

OVERVIEW OF THE SCIENTIFIC PRODUCTION

I am author of:

- 33 research papers (2 reviews), of which 13 as first author and 10 as first theoretical author.
- 18 oral presentations at international conferences and workshops
- 9 invited presentations at Conferences, Universities and Research Institutes.

Number of Citations

Source: Scopus, (26-07-2019): 213

Source: Google Scholar (26/07/2019): 264

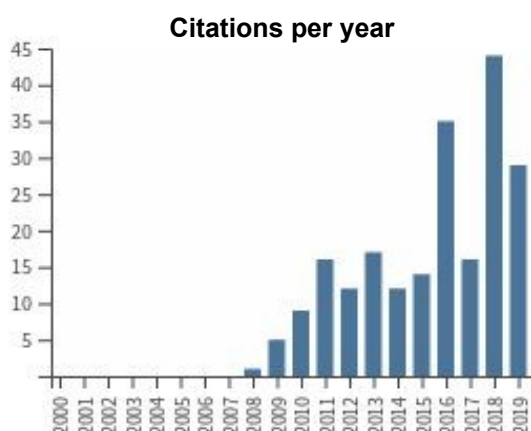
H-index

Source: Scopus, (26-07-2019): 8

Source: Google Scholar (26-07-2019): 10

12 papers with citations ≥ 8 .

Number of publications in the last 5 years: 20.



PUBLICATIONS *(publications selected for evaluation are highlighted in bold)*

33. A. Brambilla, A. Picone, S. Achilli, G. Fratesi, A. Calloni, G. Bussetti, M. Finazzi, L. Duò, F. Ciccacci, *"Effects of the introduction of a Chromium Oxide monolayer at the C60/Fe(001) interface"*, Journal of Applied Physics 1125, 142907 (2019); DOI: <https://doi.org/10.1063/1.5075531>.
EISSN: 1089-7550. IF (2018) 2.32.
32. G. Fratesi, S. Achilli, N. Manini, G. Onida, A. Baby, A. Ravikumar, A. Ugolotti, G. P. Brivio, L. Floreano, A. Milani and C. S. Casari, *"Fingerprints of sp-C Hybridization in the Near-Edge X-Ray Absorption Spectra of Surface-Grown Materials"*, Materials 11(12), 2556 (2018); DOI: <https://doi.org/10.3390/ma11122556>.
EISSN 1996-1944. IF (2018) 3.26.
31. S. Achilli, N. Manini, G. Onida, E. Prati
"Theoretical spectroscopy characterization of deep electronic states of defects in silicon via Density Functional Theory with hybrid potentials" Chapter of *"Toward a Science Campus in Milan"* - p. 17-24,.
Editors: P. F. Bortignon, G. Lodato, E. Meroni, M. Paris, L. Perini, A. Vicini, Springer Edition (2018).
DOI: <https://doi.org/10.1007/978-3-030-01629-6>.
- 30. S. Achilli, N. Manini, G. Onida, T. Shinada, T. Tanii, E. Prati**
"GeVn complexes in silicon: a viable route towards single-electron transport at room temperature",
Scientific Reports 8, 18054 (2018). DOI: <https://doi.org/10.1038/s41598-018-36441-w>.
ISSN: 2045-2322 (online). IF (2018) 4.259.
- 29 S. Achilli, S. Tognolini, E. Fava, S. Ponzoni, C. Cepek, L. L. Patera, C. Africh, E. del Castillo, M. I. Trioni, and S. Pagliara *"Surface states characterization in the strongly interacting graphene/Ni(111) system"*,
New Journal of Physics 20, 103039 (2018). DOI: <https://doi.org/10.1088/1367-2630/aae7a0>.
ISSN: 1367-2630. IF (2018) 3.773.
28. Marco Bragato, Simona Achilli, Fausto Cargnoni, Davide Ceresoli, Rocco Martinazzo, Raffaella Soave, Mario Italo Trioni, *"Magnetic Moments and Electron Transport through Chromium-based Antiferromagnetic Nanojunctions"*, Materials 11, 2030 (2018). DOI: <https://doi.org/10.3390/ma11102030>.
ISSN: 1996-1944. IF (2017) 2.728.
- 27. S. Achilli, E. Cavaliere, T. H. Nguyen, M. Cattelan, L. Artiglia, S. Agnoli "Growth and electronic structure of 2D hexagonal nanosheets on highly anisotropic rectangular substrate"**, Nanotechnology 29, 485201 (2018). DOI: <https://doi.org/10.1088/1361-6528/aadfd2>.
ISSN: 0957-4484. IF (2018) 3.399.
26. S. Tognolini, S. Achilli, S. Ponzoni¹, S. Lisi, L. Longetti, C. Mariani, M. I. Trioni and S. Pagliara *"On- and off-resonance measurement of the IPS lifetime at the graphene/Ir(111) interface"*, Surf. Sci. 679, 11-16

(2019). DOI: <https://doi.org/10.1016/j.susc.2018.08.010>.

ISSN: 0039-6028. IF (2018): 1.849.

25. M. Bonfanti, S. Achilli, R. Martinazzo

"Sticking of Hydrogen atoms on graphene"

TOPICAL REVIEW in J. Phys. Condens. Matter 30, 283002 (2018). DOI: <https://doi.org/10.1088/1361-648X/aac89f>.

Online ISSN: 1361-648X. IF (2017): 2.711.

24. A. Brambilla, A. Picone, D. Giannotti, A. Calloni, G. Berti, G. Bussetti, S. Achilli, G. Fratesi, M. I. Trioni, G. Vinai, P. Torelli, G. Panaccione, L. Duò, M. Finazzi, F. Ciccacci

***"Enhanced Magnetic Hybridization of a Spinterface through Insertion of a Two-Dimensional Magnetic Oxide Layer"*,**

Nano Lett. 17, 7440 (2017). DOI: <https://doi.org/10.1021/acs.nanolett.7b03314>.

ISSN: 1530-6984. IF (2018): 12.279.

23. A. Calloni, G. Fratesi, S. Achilli, G. Berti, G. Bussetti, A. Picone, A. Brambilla, P. Folegati, F. Ciccacci, L. Duò

"Combined spectroscopic and ab-initio investigation of monolayer range Cr oxides on Fe(001): the effect of an ordered vacancy superstructure"

Phys. Rev. B 96, 085427 (2017). DOI: <https://doi.org/10.1103/PhysRevB.96.085427>.

ISSN: 2469-9950. IF (2018): 3.736.

22. C. Pintossi, S. Ponzoni, S. Achilli, P. Castrucci, S. Pagliara, L. Sangaletti

"Hybridized C–O–Si Interface States at the Origin of Efficiency Improvement in CNT/Si Solar Cells"

Applied Materials & Interfaces 9, 16627 (2017). DOI: <https://doi.org/10.1021/acsami.7b01766>.

ISSN: 1944-8244. IF (2018): 8.456.

21. S. Tognolini, S. Achilli, L. Longetti, E. Fava, C. Mariani, M. I. Trioni, S. Pagliara

Reply, Phys. Rev. Lett. 117, 239702 (2015). DOI: <https://doi.org/10.1103/PhysRevLett.117.239702>.

ISSN: 0031-9007. IF (2018): 9.227.

20. E. del Castillo, S. Achilli, F. Cargnoni, D. Ceresoli, R. Soave, M. I. Trioni

"Spin filtering in graphene junction with Ti and Co adsorbates"

Chem. Phys. 478, 91 (2016). DOI: <https://doi.org/10.1016/j.chemphys.2016.04.016>.

ISSN: 0301-0104. IF (2018): 1.822.

19. T. Bathon, S. Achilli, P. Sessi, V. A. Golyashov, K. A. Kokh, O. E. Tereshchenko, M. Bode

***"Experimental realization of a topological p-n junction by intrinsic defect-grading"*,**

Adv. Mater. 28, 2183 (2016). DOI: <https://doi.org/10.1002/adma.201504771>.

ISSN: 1521-4095. IF (2018): 21.95.

18. P. Bonardi, S. Achilli, G. F. Tantardini, R. Martinazzo

“Electron transport in carbon wires in contact with Ag electrodes: a detailed first principles investigation”,

Phys. Chem. Chem. Phys. 17, 18413 (2015). DOI: <https://doi.org/10.1039/C5CP02796A>.

ISSN: 1463-9076. IF (2018): 3.567.

17. S. Tognolini, S. Achilli, L. Longetti, E. Fava, C. Mariani, M. I. Trioni, S. Pagliara

“Rashba Spin-Orbit Coupling in Image Potential States”,

Phys. Rev. Lett. 115, 046801 (2015). DOI: <https://doi.org/10.1103/PhysRevLett.115.046801>.

ISSN: 0031-9007. IF (2018): 9.227.

16. S. Pagliara, S. Tognolini, L. Bignardi, G. Galimberti, S. Achilli, M.I. Trioni, P. Rudolf, F. Parmigiani *“Nature of the surface states at the single-layer graphene/Cu(111) and graphene/ polycrystalline-Cu interfaces”*,

Phys. Rev. B 91, 195440 (2015). DOI: <https://doi.org/10.1103/PhysRevB.91.195440>.

ISSN: 2469-9950. IF (2018): 3.736.

15. E. Del Castillo, F. Cargnoni, S. Achilli, G. F. Tantardini, M. I. Trioni

“Spin asymmetric band gap opening in graphene by Fe adsorption”

Surf. Sci. 634, 62 (2015). DOI: <https://doi.org/10.1016/j.susc.2014.11.012>.

ISSN: 0039-6028. IF (2018): 1.849.

14. S. Achilli, G. F. Tantardini, R. Martinazzo

“Hydrogen-dimer lines and electron waveguides in graphene”,

Phys. Chem. Chem. Phys. 16, 17610 (2014). DOI: <https://doi.org/10.1039/C4CP01025F>.

ISSN: 1463-9076. IF (2018): 3.567.

13. M. I. Trioni, S. Achilli, E. V. Chulkov

“Key ingredients of the alkali atom – metal surface interaction: Chemical bonding versus spectral properties”, Prog. Surf. Sci. 88, 160 (2013). DOI: <https://doi.org/10.1016/j.progsurf.2013.03.002>.

ISSN: 0079-6816. IF (2018): 8.762.

12. S. Achilli, M. I. Trioni, E. V. Chulkov *“Self-consistent approach for spectral properties of single alkali adatoms on Cu(111)”*

Phys. Rev. B 85, 045408 (2012). DOI: <https://doi.org/10.1103/PhysRevB.85.045408>.

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11. S. Achilli, G. P. Brivio, G. Fratesi and M. I. Trioni

“Spin polarized metastable helium de-excitation processes on metal surfaces”

J. Phys Chem. A, 115, 8498 (2011). DOI: <https://doi.org/10.1021/jp2005875>.

ISSN: 1089-5639. IF (2018): 2.641.

PhD Thesis. Title: *"Spectral properties of adsorbates on metal surfaces via the embedding method"*

10. P. Gargiani, M. G. Izzo, F. Bussolotti, M. G. Betti, S. Achilli and M. I. Trioni

"Bi ordered phases on Cu(100): periodic arrays of dislocations influence the electronic properties"

J. Chem. Phys., 132, 174706 (2010). DOI: <https://doi.org/10.1063/1.3424741>.

ISSN: 1089-7690. IF (2018): 2.997.

9. S. Achilli, M. I. Trioni and G. P. Brivio

"Detailed features of the surface electronic states of K/Cu(111) by density functional theory"

Phys. Rev. B 81, 165444 (2010). DOI: <https://doi.org/10.1103/PhysRevB.81.165444>

ISSN: 2469-9950. IF (2018): 3.736.

8. A. Picone, G. Fratesi, A. Brambilla, P. Sessi, F. Donati, S. Achilli, L. Maini, M. I. Trioni, C. S. Casari, M. Passoni, A. Li Bassi, M. Finazzi, L. Duò, and F. Ciccacci

"Atomic corrugation in Scanning Tunneling Microscopy images of the Fe(001)-p(1x1)O Surface"

Phys. Rev. B 81, 115450 (2009). DOI: <https://doi.org/10.1103/PhysRevB.81.115450>.

ISSN: 2469-9950. IF (2018): 3.736.

7. M. I. Trioni, G. Fratesi, S. Achilli and G. P. Brivio

"Dynamics of electron distributions probed by helium scattering"

J. Phys. Condens Matter 21, 264003 (2009). DOI: <https://doi.org/10.1088/0953-8984/21/26/264003>.

ISSN: 0953-8984. IF (2018): 2.711.

6. S. Achilli, G. Butti, M. I. Trioni, and E. V. Chulkov

"Electronic structure and lifetime broadening of a quantum-well state on p(2x2) K/Cu(111)"

Phys. Rev. B 80, 195419 (2009). DOI: <https://doi.org/10.1103/PhysRevB.80.195419>.

ISSN: 2469-9950. IF (2018): 3.736.

5. S. Achilli, M. I. Trioni, E. V. Chulkov, P. M. Echenique, V. Sametoglu, N. Pontius, A. Winkelmann, A. Kubo, J. Zhao, and H. Petek

"Spectral properties of Cs and Ba on Cu(111) at very low coverage: Two-photon photoemission spectroscopy and electronic structure theory".

Phys. Rev. B 80, 245419 (2009). DOI: <https://doi.org/10.1103/PhysRevB.80.245419>.

ISSN: 2469-9950. IF (2018): 3.736.

4. F. Donati, P. Sessi, S. Achilli, A. Li Bassi, M. Passoni, C. S. Casari, C. E. Bottani, A. Brambilla, A. Picone, M. Finazzi, L. Duò, M. I. Trioni, and F. Ciccacci

"Scanning tunneling spectroscopy of the Fe(001)-p(1x1)O surface".

Phys. Rev. B 79, 195430 (2009). DOI: <https://doi.org/10.1103/PhysRevB.79.195430>.

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3. S. Achilli, S. Caravati, M. I. Trioni

"Ultrathin Fe film on Cu(001): Exchange splitting of image states from first principles"

Surf. Sci. 601, 4048 (2007). DOI: <https://doi.org/10.1016/j.susc.2007.04.175>.

ISSN: 0039-6028. IF (2018): 1.849.

2. S. Achilli, S. Caravati, M. I. Trioni

"Ab initio electronic and magnetic properties of 1 ML Fe/Cu(001)"

J. Phys. Condens. Matter 19, 305021 (2007). DOI: <https://doi.org/10.1088/0953-8984/19/30/30502.1>

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1. S. Achilli, G. P. Brivio, M. I. Trioni

"New feature in the Auger peak of adsorbed oxygen"

Surf. Sci. 600, 3610 (2006). DOI: <https://doi.org/10.1016/j.susc.2006.01.065>.

ISSN: 0039-6028. IF (2018): 1.849.

Papers submitted:

(34) S. Achilli, R. Soave, S. Freddi, G. Drera, S. Pagliara, A. De Poli, L. Sangaletti (UNICATT), P. Castrucci:

"A theoretical and experimental investigation of the mechanism underlying response enhancement of CNT-Si based devices upon NO₂ exposure", submitted to Carbon.

(35) A. Calloni, M. S. Jagadeesh, A. Brambilla, A. Picone, A. Lodesani, G. Fratesi, S. Achilli, L. Floreano, A. Verdini, A. Goldoni, L. Duò, M. Finazzi, F. Ciccacci, *"CoTPP molecules on Fe(001)-p(1×1)O: structural and electronic aspects"*, submitted to Appl. Surf. Sci.

CONTRIBUTIONS AT CONGRESSES

Posters

Oct 2018 Workshop: "Transiesta +SISL", Copenhagen.

May 2014 5th edition of Graphene International Conference "Graphene 2014", Toulouse.

Sep 2013 "FisMat 2013" Italian National Conference on Condensed Matter Physics, Milano.

Jun 2013 7th International Conference on the Fundamental Science of Graphene and Applications of Graphene-Based Devices: "Graphene Week", Chemnitz.

Feb 2011 Workshop: "Muffin Tin recipes, FLEUR hands on tutorial", Forschungszentrum, Jülich.

Sep 2010 Workshop: "Passion for Knowledge", Donostia International Physics Center, San Sebastian.

Jan 2009 14th International Workshop on Computational Physics and Materials Science: Total Energy and Force Methods, ICTP, Trieste.

Jul 2007 Summer School : "Ab Initio Time Dependent Density Functional Theory", San Sebastian.

May 2007 4th ETSF Young Researcher's Meeting, San Sebastian.

Sep 2006 24th European Congress on Surface Science, Paris.

Sep 2005 23th European Congress on Surface Science, Berlin.

Oral contributions

Jul 2019 Conference: “14th International Conference of Advanced Nanomaterials”, Aveiro.

Title: “GeV complex in silicon: a viable route toward room temperature quantum information technology.”

Jun 2019 Conference: “Theory Meets Experiments”, Prague.

Title: “GeV complex in silicon: a viable route toward room temperature quantum information technology.”

Feb 2019 Workshop: “3rd Workshop Condensed Matter Highlights”, Milano.

Title: “Enhanced Magnetic Hybridization of C₆₀ on Fe(001) by a two dimensional Chromium Oxide layer.”

Feb 2019 Conference: “Toward Reality in Nanoscale Materials X”, Kittila.

Title: “GeV complex in silicon: a viable route toward room temperature quantum information technology.”

Oct 2018 Conference: “Materials.it”, Milano.

Title: “GeV complex in silicon: a viable route toward room temperature single electron transport.”

Sep 2018 “2018 MolSimEng Workshop”, Milano.

Title: “Enhanced Magnetic Hybridization of C₆₀ on Fe(001) by a two dimensional Chromium Oxide layer.”

Sep 2018 “23rd ETSF Workshop on Electronic Excitations”, Milano.

Title: GeV_n complexes in silicon: a viable route toward room temperature single atom devices.”

Mar 2018 Conference: “American Physical Society March Meeting 2018”, Los Angeles.

Title: “GeV_n complexes in silicon: a viable route toward room temperature single atom devices.”

Sep 2017 “ETSF Workshop 2017”, INFN national Labs, Frascati.

Title: “Single electron quantum transport through deep atomic states.”

Jun 2016 DIPC–PAMS Theory Workshop: “Towards reality in modeling molecular electronics”, Donostia International Physics Center, San Sebastian.

Title: “First principle semiclassical conductivity and quantum transport in graphene with resonant scatterers: the case of H and F adatoms and the carbon atom vacancies.”

Sep 2015 “FisMat 2015”, Italian National Conference on Condensed Matter Physics, Palermo.

Title: “Unoccupied surface features induced by epitaxial graphene on metal surfaces.”

Sep 2010 26th Congresso nazionale Società Italiana di Fisica, Modena.

Title: “Bi film on Cu: surface morphology and electronic properties.”

Aug 2010 27th European Congress on Surface Science, Groningen.

Title: “Interplay between electronic properties and surface morphology in Bi/Cu(100)”.

Jul 2008 25th European Congress on Surface Science, Liverpool.

Title: “In plane dispersion of the n=1 image state of Cu(111) via the embedding method and the phase shift model.”

Jul 2008 44th Workshop: “Dynamical Phenomena in low-Dimensional Systems”, International School of

Solid State Physics, "Ettore Majorana" Foundation and centre for scientific culture, Erice.

Title: "In plane dispersion of the $n=1$ image state of Cu(111) via the embedding method and the phase shift model."

May 2008 5th ETSF Young Researcher's Meeting, Modena.

Title: "Elastic contribution to the lifetime of excited surface states of alkali overlayers on Cu(111)."

Jul 2007 42th Workshop: "Low dimensional Dynamical phenomena and simulation", International School of Solid State Physics, "Ettore Majorana" Foundation and centre for scientific culture, Erice.

Title: "Bi film on Cu: surface morphology and electronic properties."

Jul 2006 37th Workshop: "Low dimensional Dynamical phenomena and simulation", International School of Solid State Physics, "Ettore Majorana" Foundation and centre for scientific culture, Erice.

Title: "Ultrathin Fe film on Cu: Effects of the dimensionality reduction".

INVITED TALKS AND INVITED SEMINARS

1-4 Jul 2019 Plenary talk (invited) to present NFFA.eu infrastructure, "14th International Conference of Advanced Nanomaterials", Aveiro (Portugal).

19-21 Feb 2019 "2nd NFFA-Europe Scientific Workshop", Università degli Studi di Milano.

Invited talk: "GeV complex in silicon: a viable route toward room temperature quantum information technology."

18 Dec 2018 "QTech Fall meeting", Università degli Studi di Milano, Dip. di Fisica.

Invited talk: "GeV complex in silicon: a viable route toward room temperature quantum information technology."

23 Nov 2018 "Atoms and Molecules On Solid Surfaces", Università di Milano Bicocca, Dip. di Scienze dei Materiali.

Invited talk: "Enhanced Magnetic Hybridization of C_{60} on Fe(001) by a two dimensional Chromium Oxide layer."

4 Oct 2017 Università di Torino, Dip. di Chimica. Host: Prof. R. Dovesi.

Invited seminar: "Single-electron quantum transport through deep atomic states of Ge dopants in silicon."

6 Jun 2017 Università di Trieste, Dip. di Fisica. Host: Prof. F. Parmigiani.

Invited seminar: "Interface properties of graphene on metals and semiconductors: interplay between theory and experiments for an accurate characterization"

2-4 May 2017 IV Italy-Japan Seminar, Colico.

Invited talk: "Deep electronic states of defects due to implanted atoms in Silicon: tools and results from a theoretical spectroscopy approach."

Jun 2014 Università Cattolica del Sacro Cuore, Dip. di Fisica, Brescia. Host: Dr. S. Pagliara.

Invited seminar: "How DFT can support experimental analysis of low dimensional systems."

Jun 2011 Università di Milano Bicocca, Dip. di Scienze dei Materiali. Seminar for the local PhD program.

Title: "Electronic properties of adatoms and overlayers on metals: extended substrate approach."

REFERENCES

Prof. N. Manini, Università degli Studi di Milano – nicola.manini@fisica.unimi.it

Prof. E. Chulkov, Donostia International Physics Center - waptctce@sq.ehu.es

Prof. R. Martinazzo, Università degli Studi di Milano - rocco.martinazzo@unimi.it

Prof. L. Sangaletti, Università Cattolica del Sacro Cuore - luigi.sangaletti@unicatt.it

Dr. E. Prati, IFN-CNR, enrico.prati@cnr.it

Prof. R. Dovesi, Università degli Studi di Torino - roberto.dovesi@unito.it

Prof. G. Benedek, Università di Milano Bicocca – giorgio.benedek@mater.unimib.it

Prof. P. Ordejon, Catalan Institute of Nanoscience and Nanotechnology – pablo.ordejon@icn2.cat

Data

26/07/2019

Luogo

Milano

DIREZIONE CENTRALE GESTIONE DELLE RISORSE UMANE UFFICIO CONCORSI E BORSE DI STUDIO

Oggetto: accertamento della regolarità del procedimento, approvazione della graduatoria e nomina dei vincitori del concorso pubblico, per titoli ed esami, per l'assunzione con contratto di lavoro a tempo indeterminato di n.4 unità di personale con il profilo di Ricercatore, III livello professionale, presso Strutture del Consiglio Nazionale delle Ricerche

Bando n. 368.17 RIC – Area Strategica MATERIALI INNOVATIVI, TECNICHE AVANZATE DI CARATTERIZZAZIONE E MODELLING

IL DIRIGENTE

VISTO il D.Lgs 31 dicembre 2009 n. 213, recante “*Riordino degli Enti di ricerca in attuazione dell’art. 1 della legge 27 settembre 2007, n. 165*”;

VISTO lo Statuto del CNR, emanato con provvedimento del Presidente del CNR n. 24 prot. n. 0023646 in data 7 aprile 2015, di cui è stato dato l’avviso di pubblicazione sul sito del Ministero dell’Istruzione, dell’Università e della Ricerca in data 29 aprile 2015;

VISTO il Regolamento di Organizzazione e Funzionamento del CNR, emanato con provvedimento del Presidente del CNR n. 43 prot. n. 0036411 in data 26 maggio 2015, pubblicato nella Gazzetta Ufficiale della Repubblica Italiana – Serie Generale – n. 123 in data 29 maggio 2015;

VISTO il Regolamento del Personale del CNR, emanato con decreto del Presidente del CNR prot. n. 0025035 in data 4 maggio 2005, pubblicato nel Supplemento ordinario n. 101 alla Gazzetta Ufficiale della Repubblica Italiana n. 124 del 30 maggio 2005;

VISTO l’art. 1, comma 247, della legge 28 dicembre 2015, n. 208 (legge di stabilità 2016) a mente del quale sono stanziare risorse per l’assunzione di ricercatori negli Enti Pubblici di Ricerca;

VISTO il decreto del Ministro dell’Istruzione, dell’Università e della Ricerca – prot. n. 105 del 26 febbraio 2016, registrato dalla Corte dei Conti in data 4 maggio 2016, pubblicato sulla G.U. “Serie Generale” del 27 maggio 2016;

VISTO il DP CNR prot. n.0044502 in data 23 giugno 2016, mediante il quale è stato bandito un concorso pubblico per titoli ed esami, per l’assunzione con contratto di lavoro a tempo pieno e indeterminato di n.4 unità di personale con il profilo di Ricercatore - III livello professionale, presso strutture del Consiglio Nazionale delle Ricerche – Area Strategica Materiali Innovativi, Tecniche Avanzate di Caratterizzazione e Modelling - il cui avviso è stato pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana - IV Serie Speciale n. 52 in data 1 luglio 2016, in particolare l’art. 12;

VISTO il DP CNR prot. n.0055187 in data 9 agosto 2016 mediante il quale è stata nominata la commissione esaminatrice del concorso predetto;

ESAMINATI gli atti della predetta commissione esaminatrice, consistenti in n.11 verbali e relativi allegati;

ACCERTATA la regolarità formale del procedimento;

PRESO ATTO della graduatoria di merito formulata dalla commissione nella quale, ai sensi dell’art. 10 comma 10 del bando, sono stati inseriti i candidati che hanno conseguito un punteggio complessivo non inferiore a 75/100;

TENUTO CONTO del vincolo temporale del 31 dicembre 2016 per l'utilizzo delle risorse finanziarie assegnate, per le assunzioni dei vincitori del concorso in argomento, dalle norme sopra richiamate - Legge n. 208 del 28/12/2015 e DM n. 105 del 26/2/ 2016;

CONSIDERATO che ai fini di accelerare la procedura prevista dall'art. 11 del bando, alla luce del predetto limite temporale e dei tempi di conclusione del procedimento concorsuale, è stato richiesto l'invio, entro il giorno 23 dicembre 2016, dei titoli di riserva e/o di preferenza a parità di merito ai candidati che ne avevano fatto espressa menzione nella domanda di partecipazione, ai sensi dell'art. 3 c. 9 del bando;

PRESO ATTO dei titoli di riserva e/o di preferenza a parità di merito inviati dai candidati entro il termine predetto;

VISTI gli artt. 4, comma 2 e 17, del D.Lgs n. 165 in data 30 marzo 2001 e successive modificazioni;

dispone

Art. 1 Sono approvati gli atti del procedimento del concorso pubblico, per titoli ed esami, per l'assunzione con contratto di lavoro a tempo indeterminato di n. 4 unità di personale con il profilo di Ricercatore, III livello professionale, presso Strutture del Consiglio Nazionale delle Ricerche

Bando n. 368.17 RIC – Area Strategica MATERIALI INNOVATIVI, TECNICHE AVANZATE DI CARATTERIZZAZIONE E MODELLIN

Art. 2 Esperite le modalità di cui all'art. 11 del bando, in merito ai candidati classificatisi ex aequo, è approvata la seguente graduatoria:

N°	CANDIDATO	PUNTEGGIO (/100)	PRECEDE PER
1	Liscio Andrea	95	
2	Barone Paolo	94	
3	Ricciardi Loredana	93	<i>lodevole servizio c/o CNR</i>
4	Dell'Angela Martina	93	<i>figlio a carico</i>
5	Bianchi Emanuela	93	
6	Candini Andrea	92	<i>figli a carico</i>
7	Di Sante Domenico	92	
8	Mulazzi Mattia	91	
9	Giansante Carlo	90	<i>figli a carico</i>
10	Listorti Andrea	90	<i>minore età</i>
11	Cococcioni Matteo	90	
12	Papagno Marco	89	<i>minore età</i>
13	Nobile Concetta	89	
14	Ortolani Luca	88	<i>lodevole servizio c/o CNR</i>
15	Brosco Valentina	88	<i>figlio a carico</i>
16	Pisarra Michele	88	<i>minore età</i>
17	Liscio Fabiola	88	
18	Prezzi Deborah	87	<i>figli a carico</i>
19	Timrov Iurii	87	<i>minore età</i>
20	Patera Laerte Luigi	87	<i>minore età</i>
21	Telesio Francesca	87	<i>minore età</i>
22	Achilli Simona	87	<i>minore età</i>



Consiglio Nazionale delle Ricerche

N°	CANDIDATO	PUNTEGGIO (/100)	PRECEDE PER
23	Genchi Giada Graziana	87	<i>minore età</i>
24	Tocchio Luca Fausto	87	<i>minore età</i>
25	Andreussi Oliviero	87	<i>minore età</i>
26	Rossella Francesco	87	<i>minore età</i>
27	Motta Alessandro	87	<i>minore età</i>
28	Guerra Roberto	87	<i>minore età</i>
29	Honolka Jan	87	<i>minore età</i>
30	Delugas Pietro Davide	87	
31	Pettinari Giorgio	86	<i>lodevole servizio c/o CNR</i>
32	Forte Filomena	86	<i>figli a carico</i>
33	Di Pietro Paola	86	<i>minore età</i>
34	Rubano Andrea	86	<i>minore età</i>
35	Barcaro Giovanni	86	<i>minore età</i>
36	Perfetto Enrico	86	<i>minore età</i>
37	Quarta Alessandra	86	<i>minore età</i>
38	Peddis Davide	86	
39	De Luca Gabriella Maria	85	<i>figlio a carico</i>
40	Manca Nicola	85	<i>minore età</i>
41	Colella Silvia	85	<i>minore età</i>
42	Baldoni Matteo	85	<i>minore età</i>
43	Sibillano Teresa	85	<i>minore età</i>
44	Mattioli Giuseppe	85	
45	Caretta Antonio	84	<i>minore età</i>
46	Lo Savio Roberto	84	<i>minore età</i>
47	Capone Barbara	84	<i>minore età</i>
48	Sheverdyayeva Polina	84	<i>minore età</i>
49	Sellerio Alessandro Luigi	84	<i>minore età</i>
50	De Marco Luisa	84	
51	Valli Angelo	83	<i>minore età</i>
52	Motta Carlo	83	<i>minore età</i>
53	Di Santo Giovanni	83	<i>minore età</i>
54	Trani Fabio	83	
55	Farnesi Camellone Matteo	82	<i>figlio a carico</i>
56	Olivieri Giorgia	82	<i>minore età</i>
57	Corno Marta	82	<i>minore età</i>
58	Fiore Angela	82	<i>minore età</i>
59	Bardelli Fabrizio	82	
60	Grisanti Luca	81	<i>minore età</i>
61	Bianco Giuseppe Valerio	81	<i>minore età</i>
62	Iori Federico	81	<i>minore età</i>
63	Toschi Francesco	81	
64	Fisichella Gabriele	80	<i>minore età</i>
65	Totani Roberta	80	<i>minore età</i>
66	Nappini Silvia	80	<i>minore età</i>
67	Romeo Francesco	80	<i>minore età</i>
68	Verna Adriano	80	<i>minore età</i>
69	Palumbo Mauro	80	

N°	CANDIDATO	PUNTEGGIO (/100)	PRECEDE PER
70	Mio Antonio Massimiliano	79	<i>lodevole servizio c/o CNR</i>
71	Rotunno Enzo	79	<i>minore età</i>
72	Micciarelli Marco	79	<i>minore età</i>
73	Camarda Massimo	79	
74	Chiarella Fabio	78	<i>figlio a carico</i>
75	Sambri Alessia	78	<i>minore età</i>
76	Pezzi Luigia	78	
77	Fratini Michela	77	<i>figlio a carico</i>
78	Gigli Lara	77	<i>minore età</i>
79	Basiricò Laura	77	<i>minore età</i>
80	Galdi Alice	77	<i>minore età</i>
81	D'Angelo Daniele	77	<i>minore età</i>
82	Gala Fabrizio	77	<i>minore età</i>
83	Fortuna Sara	77	<i>minore età</i>
84	Aliano Antonio	77	
85	Campo Giulio	76	<i>minore età</i>
86	D'Amico Pino	76	<i>minore età</i>
87	Costanzo Francesca	76	<i>minore età</i>
88	Gaudiuso Rosalba	75	<i>minore età</i>
89	Serenelli Luca	75	<i>minore età</i>
90	Figà Viviana	75	<i>minore età</i>
91	Rota Alberto	75	<i>minore età</i>
92	Vuono Danilo	75	

Art. 3 – I Dott. **Andrea Liscio, Paolo Barone, Loredana Ricciardi, Martina Dell'Angela** sono nominati vincitori del concorso indicato nelle premesse del presente provvedimento.

Art. 4 - I predetti saranno assunti con contratto di lavoro a tempo indeterminato al III livello professionale Profilo Ricercatore, con il trattamento economico previsto dal vigente CCNL del Comparto Istituzioni ed Enti di Ricerca e Sperimentazione.

Art. 5 - Il presente provvedimento è pubblicato sul sito Istituzionale del Consiglio Nazionale delle Ricerche <http://www.urp.cnr.it/> (Sezione Lavoro e Formazione) e nel Sistema di Selezioni Online CNR <https://selezionionline.cnr.it/>; di tale pubblicazione sarà data notizia, mediante avviso, nella Gazzetta Ufficiale della Repubblica Italiana.

IL DIRIGENTE