

ALLEGATO B

DICHIARAZIONI SOSTITUTIVE DI CERTIFICAZIONI

(art. 46 D.P.R. n. 445/2000)

DICHIARAZIONI SOSTITUTIVE DELL'ATTO DI NOTORIETÀ

(art. 47 D.P.R. n. 445/2000)

Il... sottoscritto...

COGNOME\_Gatsios\_\_\_\_\_

NOME\_Christos\_\_\_\_\_

PEC\_\_\_\_\_

Visto il D.P.R. 28 dicembre 2000, n. 445 concernente "T.U. delle disposizioni legislative e regolamentari in materia di documentazione amministrativa" e successive modifiche ed integrazioni;

Vista la Legge 12 novembre 2011, n. 183 ed in particolare l'art. 15 concernente le nuove disposizioni in materia di certificati e dichiarazioni sostitutive (\*);

Consapevole che, ai sensi dell'art.76 del DPR 445/2000, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono punite ai sensi del Codice penale e delle leggi speciali vigenti in materia, dichiara sotto la propria responsabilità:

**che quanto dichiarato nel seguente curriculum vitae et studiorum**

**comprensivo delle informazioni sulla produzione scientifica**

**corrisponde a verità**

09/07/2024

## Curriculum vitae et studiorum

### Research Experience

- Oct 2019 – July 2024 **Humboldt University of Berlin**  
Doctorate in Physics (Magna Cum Laude)  
investigated interface level alignment, electronic band structure and molecular doping of organic semiconductors supervised by Prof. Norbert Koch
- Jan-Mar 2022 **University of Mons**  
Visiting Researcher  
received training on simulations and calculations with density-functional theory and molecular dynamics in the groups of Prof. David Beljonne and Prof. Jerome Cornil
- Oct-Dec 2021 **University of Strasbourg**  
Visiting Researcher  
received training on the fabrication and characterization of organic field-effect transistors in the group of Prof. Paolo Samori
- Mar 2013 - Mar 2019 **National and Technical University of Athens**  
Diploma Degree (Very Good)  
major: physics (solid state physics, theoretical physics)  
minor: mathematics
- Nov 2018 - Sep 2019 **Humboldt University of Berlin**  
Research Internship  
received training on the fabrication and characterization of organic light-emitting diodes in the group of Prof. Emil List-Kratochvil
- Nov 2017 – Sep 2018 **National Centre for Scientific Research ‘Democritos’**  
Diploma Thesis Research  
performed photoemission experiments (UPS, XPS) on 2D materials synthesized by molecular beam epitaxy in the group of Prof. Athanasios Dimoulas and under the supervision of Prof. Yannis Raptis.

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## List of Publications

Christos Gatsios, Andreas Opitz, Dominique Lungwitz, Ahmed E. Mansour, Thorsten Schultz, Dongguen Shin, Sebastian Hammer, Jens Pflaum, Yadong Zhang, Stephen Barlow, Seth R. Marder, Norbert Koch, "Surface doping of rubrene single-crystals with molecular electron donors and acceptors", *Phys. Chem. Chem. Phys.* (2023) (accepted), <https://doi.org/10.1039/D3CP03640E>

Martina Volpi, Rémy Jouclas, Jie Liu, Guangfeng Liu, Luca Catalano, Nemo McIntosh, Marco Bardini, Christos Gatsios, Federico Modesti, Nicholas Turetta, David Beljonne, Jerome Cornil, Alan R. Kennedy, Norbert Koch, Peter Erk, Paolo Samori, Guillaume Schweicher, Yves H. Geerts, "Enantiopure Dinaphtho[2,3-b:2,3-f]thieno[3,2-b]thiophenes: Reaching High Magnetoresistance Effect in OFETs", *Adv. Sci.* 10, 2301914 (2023), <https://doi.org/10.1002/advs.202301914>

Rongbin Wang, Thorsten Schultz, Alexandra Papadogianni, Elena Longhi, Christos Gatsios, Fengshuo Zu, Tianshu Zhai, Stephen Barlow, Seth R. Marder, Oliver Bierwagen, Patrick Amsalem, Norbert Koch, "Tuning the Surface Electron Accumulation Layer of In<sub>2</sub>O<sub>3</sub> by Adsorption of Molecular Electron Donors and Acceptors", *Small* 19, 2300730, (2023), <https://doi.org/10.1002/sml.202300730>

Rémy Jouclas, Jie Liu, Martina Volpi, Lygia Silva de Moraes, Guillaume Garbay, Nemo McIntosh, Marco Bardini Vincent Lemaur, Alexandre Vercoeur, Christos Gatsios, Federico Modesti, Nicholas Turetta David Beljonne, Jerome Cornil, Alan R. Kennedy, Norbert Koch, Peter Erk, Paolo Samori, Guillaume Schweicher, Yves H. Geerts, "Dinaphthotetrathienoacenes: Synthesis, Characterization, and Applications in Organic Field-Effect Transistors", *Adv. Sci.* 9, 2105674 (2022), <https://doi.org/10.1002/advs.202105674>

## Honors & Awards

- Oct 2019 - Oct 2022      **Marie Skłodowska-Curie Doctoral Fellowship**  
three years scholarship issued by Humboldt University of Berlin and Marie Skłodowska-Curie Actions: UHMob project (<https://www.uhmob.eu/>)
- Nov 2018 – Apr 2019      **ERASMUS+ Scholarship**  
six months scholarship issued by the National and Technical University of Athens for a research internship at Humboldt University of Berlin

## Conferences

- 6-9 Sep 2022      **UHMob international conference co-organized with Solvay Organic Semiconductors: From Principles to Applications**  
Max Planck Institute for Polymer Research, Mainz, Germany  
  
oral presentation: "Surface doping of rubrene single crystals by molecular electron donors and acceptors"
- 8-13 May 2022      **MRS Spring meetings**  
Honolulu, Hawaii, USA  
[SB01—Organic Electronics—Multimodal Characterization and Computation-Driven Material Design and Performance.](#)  
  
poster presentation: "Surface doping of rubrene single crystals by molecular electron donors and acceptors"

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## Skills & Abilities

Experience in the electronic characterization of materials and interfaces. I am acquainted with photoemission spectroscopy experiments (UPS, XPS, ARPES) to characterize the band structure and the energy level alignment at the interfaces of organic semiconductors with metals/dielectrics/semiconductors. In my doctoral studies, I also focused on the surface molecular doping of organic semiconductors to tune their electronic properties.

### **Experimental and computational techniques**

primary: photoemission spectroscopy (UPS, XPS, ARPES), UV-vis measurements

additional: near-edge X-ray absorption fine structure (NEXAFS), ultra-high vacuum systems, atomic force microscopy (AFM), density-functional-theory calculations (ORCA, CRYSTAL17), molecular dynamics (Materials Studio), characterization of organic field-effect transistors and light-emitting diodes

### **Quantitative skills**

Igor Pro wavemetrics, Origin Lab, Fortran 95 (intermediate), Python (intermediate), MATLAB, Mathematica

### **Languages**

Greek: native

English: fluent

German: intermediate

Italian: basic

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