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| career | since 09.2019: Guest Professor of Materials Science at Shanghai Jiao Tong University, China since 01.2018: Courtesy Appointment to the TU Dresden – King's College London <i>transcampus</i> since 01.2013: Courtesy Appointment to the Physics Department at TU Dresden, Germany since 11.2011: Adjunct Professor of Chemistry at the University of Alabama, USA since 11.2009: Honorary Professor of Electronic Engineering at POSTECH, South Korea since 10.2007: Chair "Materials Science and Nanotechnology" (full professor, W3), School of Engineering Sciences (Department of Materials Science) at TU Dresden 2003-2007: Head of the VW-Foundation independent research group <i>Molecular Computing</i> , Department of Physics, University of Regensburg, Germany 2001-2002: Schloßmann award fellow, Max Planck Institute PKS, Dresden, Germany 1998–2000: Guest scientist, Max Planck Institute PKS, Dresden, Germany 1997–1998: Postdoctoral Research Associate, Università di Genova, Italy |
| education | grad: 1997 Ph.D. in Physics, Università di Genova, Italy undergrad: 1994 Laurea (M.Sc.) in Physics, Università di Genova, Italy |
| publications & presentations | 510 works in international journals and refereed volumes including 4 book (edited for Springer Lecture Notes in Physics), 9 reviews and 46 letters (including Nature Journals Papers), 274 works as first or last author 10 patents 499 abstracts in conferences, workshops, or sci-schools (91 as invited talks) 116 invited talks at universities, research centers including invited public talks |
| keywords | materials modeling and transport phenomena, electronic olfaction sensors, bottom-up assembly and molecular biosensing, molecular (bio)electronics, heat and charge migration from mesoscopic to molecular systems |
| grants & awards | since 2003: more than €30m third party grants among others from the European Union, the German Research Foundation (DFG), the German Ministry of Education and Research (BMBF), the Volkswagen Foundation. since 2023: Fellow of the Royal Society of Chemistry (RSC) since 2022: Member of the Germany National Academy of Science and Engineering (acatech) Fellow of the American Physical Society (APS) since 2021: Member of the Academia Europaea since 2019: Member of the European Academy of Sciences |
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- J. Schütt, B. Ibarlucea, R. Illing, F. Zörgiebel, S. Pregl, D. Nozaki, W. M. Weber, T. Mikolajick, L. Baraban, and G. Cuniberti, *Compact nanowire sensors probe microdroplets*, *Nano Letters* **16**, 4991 (2016).
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- H. Sevinçli, C. Sevik, T. Çain, and G. Cuniberti, *A bottom-up route to enhance thermoelectric figures of merit in graphene nanoribbons*, *Nature Scientific Reports* **3**, 1228 (2013).
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- R. Gutiérrez, R. A. Caetano, B. P. Woiczikowski, T. Kubar, M. Elstner, and G. Cuniberti, *Charge transport through bio-molecular wires in a solvent: Bridging molecular dynamics and model Hamiltonian approaches*, *Physical Review Letters* **102**, 208102 (2009).
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- E. Shafir, H. Cohen, A. Calzolari, C. Cavazzoni, D. A. Ryndyk, G. Cuniberti, A. Kotlyar, R. Di Felice, and D. Porath, *Electronic structure of single DNA molecules resolved by transverse scanning tunneling spectroscopy*, *Nature Materials* **7**, 68 (2008).
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- M. Del Valle, R. Gutiérrez, C. Tejedor, and G. Cuniberti, *Tuning the conductance of a molecular switch*, *Nature Nanotechnology* **2**, 176 (2007).
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- N. Nemeč, D. Tománek, and G. Cuniberti, *Contact dependence of carrier injection in carbon nanotubes: An ab initio study*, *Physical Review Letters* **96**, 076802 (2006).
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- G. Cuniberti, G. Fagas, and K. Richter (Eds.), *Introducing Molecular Electronics (book)*, *Lecture Notes in Physics* **680**, (2005).
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