

PhD course:

“Photophysics of organic and perovskite materials and devices”

## CURRICUL VITAE

*Alberto Privitera*



### 1 Short CV

#### PROFESSIONAL CAREER

Since 20/12/2022 **Research Fellow (RTD-A)**, Department of Industrial Engineer (DIEF), University of Florence, Italy – *Member of the Laboratory of Molecular Magnetism (LaMM)*  
2022 **Postdoc Researcher**, University of Florence (*group leader (GL): Prof. Sessoli*), Italy  
2021 **Postdoc Researcher**, University of Turin (*GL Prof. Chiesa*), Italy  
2020 - 2017 **ITN Marie Curie fellow**, University of Oxford (*GL Prof. Riede*), UK  
2019 Oct/Dec **Visiting researcher**, University of Mons (*GL Prof. Beljonne*), Belgium  
2018 Oct/Dec **Visiting researcher**, University of Würzburg (*GL Prof. Dyakonov*), Germany  
2017 - 2014 **PhD fellow**, University of Padova (*SP Prof. Franco*), Italy  
2017 May/Jul **Visiting PhD student**, KAUST (*GL Prof. Bakr*), Saudi Arabia

#### EDUCATION

16/04/2018 **PhD Degree**, Science and Engineering of Materials, University of Padova, Italy  
Thesis title: “*Development and characterisation of nanostructured materials for organic and hybrid solar cells*”, Supervisor (SP): Prof. Lorenzo Franco  
17/07/2014 **Master’s Degree**, Materials Science, 110/110 cum laude, University of Padova, Italy  
12/09/2012 **Bachelor’s Degree**, Materials Science, 110/110 cum laude, University of Padova, Italy

#### SELECTED AWARDS/FELLOWSHIPS (LAST YEAR ONLY)

2022 **PNRR Young Researcher grant (3 years)**, UNIFI, Italy  
Individual research grant awarded by the Italian Ministry of University and Research (MUR)  
2022 **Winner of the contest “An idea for excellent science”**, UNIFI, Italy  
Research grant to perform preliminary research for preparation of ERC Starting Grant.  
2022 **Seal of Excellence for Marie-Curie Global Postdoctoral Fellowships**, UNIFI, Italy  
Certificate of excellence granted by European Commission (proposal#:101063484)

## 2 Bibliometric data

- Number of publications: 23
- Total number of citations (Jan 2022): >500 (Scopus, WOS), >590 citations (Scholar)
- H-index (Jan 2022): 10 (Scopus, WOS), 12 (Scholar)

## 3 Selection of the 10 most relevant publications and/or patents

1. **A. Privitera**, ..., R. Sessoli, Direct detection of spin polarization in photoinduced charge transfer through a chiral bridge, *Chem. Sci.* **2022**, 13, 12208-12218
2. **A. Privitera**, ..., A. Gillett, Geminate and non-geminate pathways for triplet exciton formation in organic solar cells, *Adv. Energy Mater.* **2022**, 12, 2103944
3. A. Gillett, **A. Privitera**, ..., R. H. Friend, The role of charge recombination to spin-triplet excitons in non-fullerene acceptor organic solar cells, *Nature* **2021**, 597, 666–671
4. **A. Privitera**, ..., M. Riede, Perspectives of organic and perovskite-based spintronics, *Adv. Optical Mater.* **2021**, 2100215 (inside front cover)
5. **A. Privitera**, ..., M. Riede, Electron Spin as Fingerprint for Charge Generation and Transport in Doped Organic Semiconductors, *J. Mater. Chem. C* **2021**, 9, 2944 - 2954
6. I. Ramirez, **A. Privitera**, ... M. Riede, The role of spin in the degradation of organic photovoltaics, *Nat. Commun.* **2021**, 12, 471
7. **A. Privitera**, ..., D. Beljonne, Molecular quadrupole moments facilitate ground-state charge generation in doped organic semiconductors, *Adv. Funct. Mater.* **2020**, 30, 2004600
8. R. Warren, **A. Privitera**, P..., M. K. Riede, Controlling energy levels and Fermi level en route to fully tailored energetics in organic semiconductors, *Nat. Commun.* **2019**, 10, 5538
9. **A. Privitera**, ..., L. Franco, Hybrid Organic/Inorganic Perovskite–Polymer Nanocomposites: Toward the Enhancement of Structural and Electrical Properties, *J. Phys. Chem. Lett.* **2017**, 8, 5981–5986
10. **A. Privitera**, ..., L. Franco, Boosting Carbon Quantum Dots/Fullerene electron transfer via surface group engineering, *Phys. Chem. Chem. Phys.* **2016**, 18, 31286-31295