PhD in Chemical Sciences
Department of Chemistry "Ugo Schiff"
University of Florence

PhD course:

"Photophysics of organic and perovskite materials and devices"

CURRICULUM VITAE

Marcello Righetto

1 Short CV

PROFESSIONAL CAREER

Current – 07/2021	**Postdoc Researcher,** University of Oxford (*group leader (GL): Prof. Herz*), UK
06/2021 – 05/2020	**Postdoc Researcher,** University College London (*GL Prof. Cacialli*), UK
04/2020 – 06/2018	**Research Fellow,** Nanyang Technological University (*GL Prof. Sum*), UK
05/2018 – 10/2017	**Assegnista di Ricerca**, University of Padova (*GL Prof. Collini*), Italy
2017 – 2014	**PhD fellow,** University of Padova (*Supervisor (SP) Prof. Bozio*), Italy

EDUCATION

16/04/2018	**PhD Degree,** Science and Engineering of Materials, University of Padova, Italy Thesis title: "*Optical Nanostructures for Excitonic Devices*", SP: Prof. Renato Bozio
16/10/2014	**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

2 Bibliometric data

- Number of publications: 29
- Total number of citations (Jan 2022): >580 (Scopus, WOS), >660 citations (Scholar)
- H-index (Jan 2022): 17 (Scopus, WOS), 17 (Scholar)

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

1. **M. Righetto**, …, T.C. Sum, Hot Carriers perspective on the nature of traps in perovskites, *Nat. Commun.* **2020**, 11, 2712
2. **M. Righetto**, …, T.C. Sum, Coupling Halide Perovskites with Different Materials: from Doping to Nanocomposites, Beyond Photovoltaics, *Progress in Materials Science* **2020**, 110, 100639
3. D. Giovanni*, **M. Righetto***, …, T. C. Sum, Origin of the long-range exciton transport in perovskite nanocrystal thin films, *Light: Science & Applications* **2021**, 10, 2

4. F. Schmitz, …, **M. Righetto***, T. Gatti*, Large Cation Engineering in Two-Dimensional Silver-Bismuth Bromide Double Perovskites, *Chem. Mater.* **2021**, *33 (12), 4688*
5. **M. Righetto**, …, T.C. Sum, The Photophysics of Ruddlesden-Popper Perovskites: A Tale of Energy, Charges and Spins, *App. Phys. Rev.* **2021**, 8, 011318
6. T.C. Sum, **M. Righetto**, S.S Lim, Perovskite Emitters: Quo Vadis?, *J. Chem. Phys.* **2021***,* 11, 152
7. D. Giovanni, S. Ramesh, **M. Righetto**, …, T.C. Sum, The Physics of Interlayer Exciton Delocalization in Ruddlesden-Popper Lead Halide Perovskites, *Nano Lett.* **2021**, 21, 405−413
8. **M. Righetto**, F. Cacialli, Charge transport layers in halide perovskite photonic devices, in *Halide Perovskites for Photonics*, AIP Publishing, Melville, New York, **2021**, pp. 5-1–5-32.
9. A. Privitera, **M. Righetto,** …, M. Riede, Perspectives of Organic and Perovskite-Based Spintronics, *Adv. Opt. Mater.* **2021**, 9, 2100215
10. S. Ramesh, D. Giovanni, **M. Righetto**, …, T.C. Sum, Tailoring the Energy Manifold of Quasi-Two-Dimensional Perovskites for Efficient Carrier Extraction, *Adv. En. Mater.* **2022**, 12, 21033556