

Barbara Fabbri obtained her Master Degree in Physics at University of Ferrara in 2011, then she received her Ph.D. in Physics in 2015 at the same University, defending her thesis on the use of innovative organic-inorganic hybrids as sensing materials. After almost seven years as Post Doc researcher, currently she is a researcher in the Sensors Laboratory of Physics and Earth Sciences Department.

Her research activity involves all the key aspects concerning the study and implementation of chemoresistive devices for gas detection: the use of innovative sensitive materials, such as 2D-materials and non-oxide semiconductors, but also the deepening of new properties of well-known metal oxides; the study of deposition techniques and activation modes for a more performing implementation of sensitive devices on technological platforms; and the study of new applications for chemical gas sensors, such as agri-food and medical diagnosis.