

**Ambra Fioravanti** received her degree in Physics at the University of Ferrara in 2013 and her Ph.D. in Science of Materials in 2017 at the University of Parma. She is currently a post-doc researcher at CNR-STEMS (Ferrara). She has more than 10 years of experience in developing and characterizing chemoresistive thick film gas sensors, from the synthesis of the functional materials in form of nanopowders to the tests of the electrical properties. She has focused her activity on the synthesis and morphological-structural characterization of different pure, mixed and doped semiconductor oxides (ZnO, WO<sub>3</sub>, SnO<sub>2</sub>, TiO<sub>2</sub>, Ti<sub>x</sub>Sn<sub>1-x</sub>O<sub>2</sub> (0 ≤ x ≤ 1), LaFeO<sub>3</sub>, etc) as well as on the realization and electrical characterization of the gas sensors. She also studies the application of gas sensors arrays in fluid power systems and in environmental pollutant monitoring. She was author and organizer of *Nanoworld, journey into the world up to -9* (Ferrara, 27/10/2018-16/06/2019), a scientific exposition of electron microscope images showing micro and nanometric structures from nature and man-made technology accompanied by 3D models and interactive exhibits.