Ilaria Pallecchi obtained a "*Laurea*" degree in Physics at the University of Genoa, in 1996 with the mark of 110/110 *s.c.l.*, with the thesis work "*Study of magnetization in the mixed state of superconducting cuprate films*". Her PhD degree at the University of Genoa, in 2000, was obtained with the thesis work *"Driving of the metal-insulator transition in heterostructures based on copper and titanium perovskites".* She spent one and a half years working on quantum wires at the Institut für Theoretische Physik of Hamburg, Germany, studying the enhancement of the spin splitting in low dimensional systems. Since 2003, she is a researcher by the CNR institute in Genoa. To date, she has published 168 papers on international journals, with an H-factor of 33.

She has had some teaching experiences, holding classes on various subjects of solid state physics (Electronic Devices Physics, Statistical Physics, Laboratory and others) for the Diploma courses in Physics, in Engineering and in Material Sciences by the University of Genoa, from 2001 to 2009, as well as classes on spintronics for the PhD course in Physics by the University of Genoa, in 2015 and in 2016. She has been supervisor of 7 Diploma thesis works in Physics and 1 PhD thesis works in Physics by the University of Genoa.

Since 1996, she has participated in 26 national and international projects, among which the Flag-Era JCT call 2017 project "Revealing the potential of transition MEtaL DIChalcogenides for thermoelectric Applications through nanostructuring and confinement (MELoDICA)" (2018-2021), where she is Principal Investigator, the Italian projet PRIN 2017 funded by MIUR High performance-low cost Iron BaSed Coated condUctorS for high field magnets (HIBISCUS) (2019-2022), where she is workpackage leader, Project FP7-NMP-2011-EU-Japan, SUPERIRON "Exploring the potential of Iron-based Superconductors", contract n. 283204 (2011-2014), where she has been workpackage leader.

She has been part of the organizing committee of 9 international conferences (THIOX 2004, THIOX 2005, THIOX 2008, SATT13, EUCAS 2013, GiTE 2018,Superfox 2020, IBS2APP 2020, WOE27).

She has been part of 3 Editorial Boards for special issues in international journals ("10 years of iron-based superconductors" in Superconductor Science and Technology by IOP; Proceedings of the conference GiTE 2018 in Journal of Materials Engineering and Performance by Springer; section "Materials" for the Proceedings of the 11th European Conference on Applied Superconductivity (EUCAS2013) in Journal of Physics: Conference Series by IOP). She is now in the editorial advisory board of Superconductor Science and Technology.

Since 2001, she has peer-reviewed more than 200 papers as referee for international scientific journals (Physical Review B, Physical Review Letters, Journal of Applied Physics, Applied Physics Letters, Supercond. Sci. Technol., Journal of Physics: Condensed Matter, Journal of Physics D: Applied Physics, New Journal of Physics, Europhysics Letters, Scientific Reports…). In 2007 she received an acknowledgement from the publisher IOP as one of the most productive referees of the year. In 2014 she received an acknowledgement from the publisher APS was ranked among the "outstanding referees" of the year (list of awardees available at https://journals.aps.org/OutstandingReferees). In 2019 she received "Publons Peer Review Awards, for top 1% of reviewers in physics" for the years 2017-2018. In 2012 and in 2016 she was referee for ANVUR (National agency for the assessment of University and research), on behalf of which she assessed 15 products and 2 products, respectively. In 2015 she was referee for the Italian ministry for economic development (call for sustainable development), on behalf of which she assessed two proposals, and for the USA Department of Energy, on behalf of which she assessed one proposal.

In 2012, she obtained the national scientific habilitation as associate university professor for the sector "Experimental physics of the matter" (MIUR bill n. 222 of July the 20th 2013, official journal n. 58 of July the 27th 2012). List of habilitated researchers: http://abilitazione.miur.it/public/pubblicarisultati.php

Her experimental research activity has concerned various topics, namely superconducting high-Tc cuprates, magnesium diboride and oxypnictides, oxide interfaces, transition metal dichalcogenides, thermoelectric materials, fabrication and characterization of field effect devices and spintronic devices based on oxides.