

Stéphane Mazouffre short biography

Stéphane Mazouffre is a Research Director at the French National Research Center (CNRS).

After graduating from the ENSIL and the University of Limoges, France, in material science and plasma physics in 1996, he received a PhD in the field of low-temperature plasma physics in 2001 from the Eindhoven University of Technology (TU/e), The Netherlands. His research activities in electric propulsion for satellites and spacecraft began in 2003 after he joined the ICARE laboratory in Orléans, France. He is currently the **Advisory Director** of the ICARE lab and the head of the Electric Propulsion Team. He was the director of ORACLE, a joint-laboratory between ICARE and the Exotrail startup from 2019 until 2022.

His research interests cover Hall thrusters and variants, new electric propulsion concepts and micropropulsion. His research also extends to the physics and technology of hollow cathodes and the physics of magnetized discharges. He is especially recognized for the development of laser diagnostics. He has authored over 130 scientific publications, more than 150 conference papers and many articles in scientific magazines. He attended 80 international symposia, 27 as invited speakers. In addition, he teaches spacecraft propulsion, electric and nuclear propulsion and beam propulsion in various institutions like the Orléans University, the IPSA and the EPF engineering schools in Paris.

Dr. Mazouffre was a recipient of the **Bronze Medal of the CNRS** in 2008 and of the Noah Hershkowitz Award of the Institute of Physics in 2012. He is a senior member of the American Institute of Aeronautics and Astronautics and a member of the BoD of the Electric Rocket Propulsion Society. In 2020 he was awarded a **Chair of Excellence** from the Carlos III University in Madrid to work on laser-aided diagnostics for propulsion. In November 2021, Dr. Mazouffre received the **Edmond Brun prize of the French Academy of Sciences** for his pathfinder works in electric thruster miniaturization. He is associated editor of the recently launched Journal of Electric Propulsion. In spring 2024, he was appointed CNRS innovation ambassador for the applied physics section.