

Dr. Tonči Tadić

Researcher and leader in nuclear and fusion-related physics at Ruđer Bošković Institute, Zagreb, Croatia

A nuclear physicist with a Ph.D. in Physics from the University of Zagreb, has dedicated his career to advancing nuclear physics and its applications. His academic journey began with a B.Sc. (1987) and M.Sc. (1992) in Physics, culminating in his Ph.D. in 1995. With extensive experience as a researcher at Ruđer Bošković Institute and a post-doctoral fellowship at Osaka National Research Institute, Japan, he has specialized in advanced materials and technologies for fusion and nuclear applications.

He has played a pivotal role in multiple high-profile international projects, including the Horizon-2020 and Horizon-Europe initiatives, focusing on fusion materials (WPMAT), neutron source development (WPENS), and education (WPEDU, WPTRED). He has led Croatian tasks and represented Croatia in key governance bodies such as the Assembly and Bureau of the EUROfusion projects. He has also significantly contributed to the IFMIF-DONES program, leading Croatia's candidacy for hosting the facility and spearheading efforts within the DONES.HR Consortium.

His achievements include designing advanced experimental setups such as the DiFU dual-beam facility for ion irradiation of fusion materials, one of only 10 similar systems worldwide. He has over 70 publications in international journals, with 1,331 citations and an H-index of 18. Notable works include advancements in lithium battery analysis, crystal spectrometry, and ion irradiation technologies.

In recognition of his contributions, he has received prestigious awards, including the Japanese Order of the Rising Sun (2014) and the Spanish Order of Civil Merit (2022), for fostering scientific collaboration between nations.

As an active member of the scientific community, he holds memberships in influential committees such as the Euratom Scientific and Technical Committee, the Fusion Programme Committee, and the IFMIF-DONES Project Steering Committee. His leadership and expertise continue to drive innovation in fusion energy, nuclear materials, and scientific collaboration.