

CV - Prof. Dr. Milos B. Djukic

Milos B. Djukic is a full professor at the University of Belgrade, Faculty of Mechanical Engineering, Department for Engineering Materials and Welding, Belgrade, Serbia. He is also an adjunct professor at Ohio University, Russ College of Engineering and Technology, Department of Chemical and Biomolecular Engineering, Athens, Ohio, USA. His research interests include fundamental understanding of hydrogen embrittlement in metals, hydrogen-materials interactions, corrosion and materials science, materials degradation, and the mechanical behavior of materials. He is the head of the Hydrogen-Materials Interaction Laboratory at the University of Belgrade, Faculty of Mechanical Engineering.

Prof. Djukic is a team member in preparation of the Hydrogen Strategy of the Republic of Serbia and an Executive Committee Member of the European Structural Integrity Society (ESIS). He is an elected Fellow (FESIS) of the ESIS. He also serves as the chair of ESIS Technical Committee TC21 on Hydrogen Embrittlement and Transport. He is a member of the Expert Committee on "Hydrogen effects in engineering materials" of the German Society for Materials Science (DGM). Prof. Djukic is an assistant subject editor for the International Journal of Hydrogen Energy by Elsevier, and a member of the editorial board of eighteen (18) international journals, including, Metallurgical and Materials Transactions A (associate editor), Gas Science and Engineering (associate editor), npj Materials Degradation, Corrosion Communications, Journal of Pipeline Science and Engineering, and Engineering Failure Analysis.

With over 25 years of teaching and research experience, Dr. Djukic has published 5 books, 10 book chapters, 1 patent, 3 technical solutions, more than 100 peer-reviewed scientific papers in international journals, and 120 conference articles. He has contributed to more than 200 industrial studies, reviews, reports, and expertise.

Prof. Djukic scientific research focuses on fundamental understanding of hydrogen embrittlement mechanisms in metallic materials and hydrogen-materials interactions. He proposed a novel model for hydrogen embrittlement in metallic materials based on the synergy of mechanisms. This so-called "HELP+HEDE model" has been widely accepted and is highly cited, with more than 1500 citations.

He was included on the 2023, 2024, and 2025 lists of the 2% most-cited researchers worldwide, published by Stanford University and curated by Elsevier using Scopus data. He has more than 5100 citations with an h-index of 24. Prof. Djukic was a keynote/invited speaker at 37 international conferences and a participant/PI in 11 R&D international scientific projects.

Prof. Djukic was a mentor, opponent, and member of defense or pre-examination committees for seventeen (17) Ph.D. theses, mostly related to hydrogen embrittlement topics in Belgium, Austria, Norway, Finland, Australia, Netherlands, France, Israel, Brazil, Australia, Italy, Sweden, and Serbia. Dr. Djukic is an external peer reviewer for scientific projects of seven (7) European scientific government agencies in Belgium, Switzerland, Austria, Poland, Norway, the Netherlands, Serbia, and South Africa. He is also a peer reviewer for research projects submitted to the European Research Council (ERC).