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SHORT BIO:

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Dr Yerokhin is the Head of the Plasma Electrolysis Research Laboratory in the Henry Royce Institute and a Senior Lecturer in Surface Engineering of Materials in the Department of Materials at the University of Manchester (UK). He was graduated in Materials Science and Metallurgy and received PhD in Engineering from Tula State University in Russia. His research interests include various aspects of plasma-assisted electrolytic, atmospheric pressure and vacuum-based processes for surface treatment and coating of metals to ensure their sustainability and pave new processing routes for manufacturing of high-performance materials, biomedical and functional devices. He is renowned for pioneering studies of Plasma Electrolysis for Surface Engineering which have triggered a world-wide interest and led to breakthrough technological developments. He has authored and co-authored over 120 research papers, 21 of which have been cited more than 100 times (h index 45, Scopus, 2024). His current research is focused on understanding fundamental mechanisms of plasma electrolysis and digitalisation of associated surface engineering processes. Dr Yerokhin is a member of the International Society of Electrochemistry, the American Ceramic Society and American Vacuum Society. He the Editorial Board member for Surface and Coatings Technology (Elsevier), the Journal of Non-Ferrous Metals (Springer) and Surfaces (MDPI), and the Associate Editor of Frontiers in Chemical Engineering (Frontiers). His academic career included appointments at Universities of Sheffield and Hull in the UK and Tula State University, where he worked as Associate Professor and led major electrochemical research laboratory. He has held Visiting Professor positions at the National University for Science and Technology MISiS in Russia and the Central South University in China. He also has significant experience of working for and with industry.