# 11th RUHR-Symposium *Functional Material for Hydrogen*: List of Posters
# June 16–17, 2026, Duisburg

| # | First Name | Last Name | Institution | Poster Title |
|---|---|---|---|---|
| 1 | Hatem | Amin | Universität Duisburg-Essen | Facet Matters across Scales: Shape-Engineered $NiFe_2O_4$ Nanocatalysts for Water Electrolysis |
| 2 | Davide | Beschi | Universität Duisburg-Essen | NiFeCoMo-Based Catalysts Synthesized by Laser Ablation in Liquids for Compositional Investigation of Alkaline Water Electrolysis Performance |
| 3 | Tugce | Beyazay | Max Planck Institute for Sustainable Materials | From Hazardous Industrial Waste to Metal Resources via Hydrogen Plasma Reduction |
| 4 | David | Diaz | Universität Duisburg-Essen | Tribological performance of electrochemically hydrogen charged 42CrMo4 martensitic steel |
| 5 | Kaili | Feng | Max Planck Institute For Sustainable Materials | Hydrogen-Induced Modulation of Microscratch Deformation in Pearlitic Steel |
| 6 | Denis | Grün | ZBT GmbH | In-situ Material Qualification on PEM Fuel Cells |
| 7 | Sebastian | Hirt | ZBT GmbH | Cation-Anion Co-Doping Enables Acid-Stable $MnO_2$ Anodes for Proton Exchange Membrane Water Electrolysis |
| 8 | Anwesha | Kanjilal | Max-Planck-Institut für Nachhaltige Materialien GmbH, Düsseldorf | |
| 9 | Mena-Alexander | Kräenbring | Universität Duisburg-Essen | Emulsion Engineering for Zero-Gap Electrosynthesis |
| 10 | Thomas | Lange | ZBT GmbH | Innovative and Scalable PEMFC Production: CCM Fabrication and Activation |
| 11 | Philipp | Lemm | Universität Duisburg-Essen | Enabling Nanoscale NiCoS Pentlandite via Laser Fragmentation in Liquids for Enhanced HER Performance |
| 12 | Noah | Leuschen | Forschungszentrum Jülich | Noble metal free corrosion protection coatings for PEM electrolyzer PTLs |
| 13 | Benjamin | Mockenhaupt | Universität Duisburg-Essen | Impact of molecular poisons on $Ni(OH)_2$ Electrocatalysts |
| 14 | Muhammad | Munawar | Universität Duisburg-Essen | Site-selective reduction and surface restructuring of α-$Fe_2O_3$ (0001) upon hydrogen adsorption |
| 15 | André | Olean Oliveira | Max Planck Institute for Chemical Energy Conversion | |
| 16 | Fatih | Özcan | Universität Duisburg-Essen | Advanced Catalyst Dispersion Studies for Scalable Production of Catalyst-Coated Membranes used in Proton Exchange Membrane Fuel Cells |
| 17 | Özge | Özgün Gülten | Max Planck Intitute for Sustainable Materials | The role of hydrogen in green iron production |
| 18 | Susanne | Palecki | ZBT GmbH | |
| 19 | Inci | Sahin | Universität Duisburg-Essen | Assessing Electron Transport as a Descriptor for Catalytic Activity in $Ni_xCoCrFe$ Alloys |
| 20 | Prashant | Srivastava | Universität Duisburg-Essen | |
| 21 | Paul | Stannek | ZBT GmbH | Thin-walled extruded graphitic bipolar foils for fuel cells |
| 22 | Klara Toben | Lünser Tappe | Universität Duisburg-Essen | Hydrogen Incorporation in X2CrNi18-9: A Look at Electronic and Magnetic Structures |
| 23 | Blaz | Toplak | Universität Duisburg-Essen | Across-scale comparison study of lanthanum-based perovskites for the oxygen evolution reaction |
| 24 | Vineetha | Vinayakumar | Universität Duisburg-Essen | Mechanochemical Activation to Enable Binder-Free Functional Materials for Efficient Alkaline Water Electrolysis |
| 25 | Nrusimha teja | Yanamandram | Max Planck Institute for Kohlenfoeschung | Systematic in situ/operando investigation of metal-support interactions of nickel-based catalysts on various supports for ammonia decomposition |
| 26 | Yuke | Yang | Universität Duisburg-Essen | |
| 27 | Jikai | Ye | Max-Planck-Institut für Kohlenforschung | Room Temperature Reduction of Metal Oxide with Hydrogen via Mechanochemistry |
| 28 | Wei | Zhao | Technical University of Munich | Concentration-Driven Stabilization of Iridium Electrocatalysts during Acidic Oxygen Evolution |
| 29 | Yawen | Zhu | Universität Duisburg-Essen | Electrochemical Impedance Spectroscopy-Based Screening of Membrane Effects for PEMFC Performance Optimization |

Note: Poster marked in red are belonging to Short Talks UDE (Wednesday, June 17, 2026, 10:15-11:00).