

## Asst. Prof. MURAT ÇELİK

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Universitaet Kaiserslautern, The Leibniz-Institut für Verbundwerkstoffe (IVW) GmbH (Doktora içi araştırma), Germany 2023 - 2023

Doctorate, The University of Edinburgh, Scotland 2019 - 2023

Postgraduate, Erciyes University, Mühendislik Fakültesi, Turkey 2013 - 2016

Undergraduate, Erciyes University, Mühendislik Fakültesi, Turkey 2010 - 2013

### Foreign Languages

English, C1 Advanced

### Research Areas

Mechanical Engineering, Non-traditional manufacturing methods, Composites, Thermal Properties

### Academic Titles / Tasks

Research Assistant, Abdullah Gul University, Mühendislik Fakültesi, Makine Mühendisliği, 2014 - 2019

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Impregnation behaviour during the production of powder epoxy towpregs**  
Çelik M., Maguire J. M., Hanisa H., Noble T., Robert C., O Bradaigh C. M.  
COMPOSITES PART B: ENGINEERING, vol.292, pp.1-16, 2025 (SCI-Expanded)
- II. **Numerical and experimental investigation of Joule heating in a carbon fibre powder epoxy towpregging line**  
Celik M., Maguire J. M., Noble T., Robert C., Bradaigh C. M. O.  
COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, vol.164, 2023 (SCI-Expanded)
- III. **Contact resistance heating of unidirectional carbon fibre tows in a powder-epoxy towpregging line**  
Celik M., Noble T., Haseeb A., Maguire J., Robert C., Bradaigh C. M. O.  
PLASTICS RUBBER AND COMPOSITES, vol.51, no.8, pp.383-392, 2022 (SCI-Expanded)
- IV. **An experimental and numerical study of the exchange current density in an HTPEM fuel cell**

Celik M., Elden G.  
FUEL CELLS, vol.21, pp.529-540, 2021 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Influence of Line Processing Parameters on Properties of Carbon Fibre Epoxy Towpreg**  
Celik M., Noble T., Jorge F., Jian R., Bradaigh C. M. O., Robert C.  
JOURNAL OF COMPOSITES SCIENCE, vol.6, no.3, 2022 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Tailored Hybrid Composite Preforms by Automated Fibre Placement of Powder Epoxy-Based Towpregs**  
Çelik M., Alapati A. K., Davidson J., Hasrin H., May D., Robert C., Ó Brádaigh C.  
21st European Conference on Composite Materials, Nantes, France, 1 - 05 July 2024
- II. **Exploring Seamless Fibre Transitions: Mechanical Characterisation Of Pneumatically Spliced Connections For Multi-Material Composites**  
Davidson J., Mai S., Amod F., Alotiabi M., Çelik M., Hasrin H., Robert C., Mccarthy E., O Bradaigh .  
21st European Conference on Composite Materials, Nantes, France, 1 - 05 July 2024
- III. **POWDER EPOXY BASED COMPOSITES FOR STRUCTURAL STRENGTHENING APPLICATIONS**  
Çelik M., Stehling R., Botha J., Noble T., Robert C., Robert C., Ó Brádaigh C., Fernando D.  
TWENTY-THIRD INTERNATIONAL CONFERENCE ON COMPOSITE MATERIALS (ICCM23), Belfast, England, 31 July - 04 August 2023, pp.0-1
- IV. **Modelling of In situ Impregnation during the Production of Powder Epoxy Based Towpregs**  
Çelik M., Maguire J. M., Hasrin H., Noble T., Robert C., Ó Brádaigh C. M.  
THE 15TH INTERNATIONAL CONFERENCE ON FLOW PROCESSES IN COMPOSITE MATERIALS (FPCM-15), Indiana, United States Of America, 27 - 29 June 2023, pp.100-101
- V. **INFLUENCE OF CROSSLINKING DENSITY ON THE MECHANICAL PROPERTIES OF DIFFERENT POWDER EPOXIES FOR COMPOSITES APPLICATIONS**  
Alapati A. K., Cameron J., Noble T., Çelik M., Bajpai A., Schubiger M., Ó Brádaigh C. M.  
SAMPE Europe Conference 2022, Hamburg, Germany, 15 - 17 November 2022
- VI. **INFLUENCE OF POWDER-EPOXY TOWPREGGING LINE PROCESSING PARAMETERS ON TOWPREG CONSOLIDATION**  
Hasrin H., Çelik M., Noble T., Maguire J., Ó Brádaigh C. M., Robert C.  
Sampe Europe Conference 2022, Hamburg, Germany, 15 - 17 November 2022
- VII. **Infrared Heating System for Powder-Epoxy Based Towpregging Line**  
Çelik M., Noble T., Alapati A. K., Maguire J., Robert C., Ó Brádaigh C. M.  
International Conference on Manufacturing of Advanced Composites 2022 , Sheffield, England, 14 September 2022
- VIII. **OPTIMISED JOULE HEATING OF CARBON FIBRES IN A LOW-COST, HIGH-SPEED POWDER-EPOXY TOWPREGGING PILOT PRODUCTION LINE**  
Çelik M., Noble T., Maguire J., Robert C., Ó Brádaigh C. M.  
Sampe Europe Conference 2021, Zürich, Switzerland, 29 - 30 September 2021
- IX. **The Deformation Analysis of H3PO4 Doped PBI Based Membrane Electrode Assemblies**  
ÇELİK M., TAŞ M., ELDEN G.  
1st INTERNATIONAL CONFERENCE ON ENERGY SYSTEMSENGINEERING, Karabük, Turkey, 2 - 04 November 2017
- X. **Numerical Characterization of Permeability Tensor of Fiber Preforms for Liquid Composite Molding Applications**  
ÇELİK M., ÇİFTÇİ C., ESKİZEYBEK V., ŞAŞ H. S.  
4th INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING, 4 -

08 October 2017

XI. **The effect of the relative humidity on the activation polarization in a PBI based PEM fuel cell**

ÇELİK M., ELDEN G.

4th INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN-2017), Antalya, Turkey, 4 - 08 October 2017

XII. **Effect of Relative Humidity on the Performance of a High Temperature PEM Fuel Cell**

ÇELİK M., ÖZİŞİK G.

INTERNATIONAL CONFERENCE ON ENERGY SYSTEMS ISTANBUL 2015, İstanbul, Turkey, 23 - 25 December 2015

## **Metrics**

Publication: 18

Citation (WoS): 12

Citation (Scopus): 15

H-Index (WoS): 2

H-Index (Scopus): 3

## **Awards**

Çelik M., Composite Award, The Institute Of Materials, Minerals & Mining (Iom3), December 2023