



## E. Murat Sözer

Prof., Koc University Istanbul Turkey  
 Composite materials  
 Resin Transfer Molding (RTM)  
 Vacuum Infusion (VI)  
 material characterization  
 permeability

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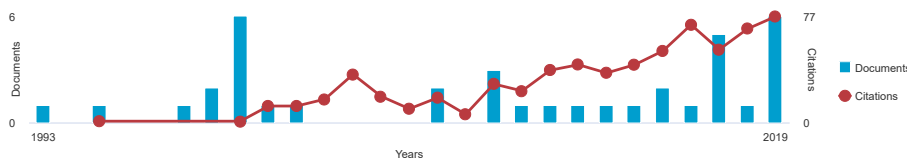
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Effect of external pressure and resin flushing on reduction of process-induced voids and enhancement of laminate quality in heated-VARTM	Yalcinkaya, M.A., Sozer, E.M., Altan, M.C.	2019	Composites Part A: Applied Science and Manufacturing 121, pp. 353-364	1
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 RELX



# E. Murat Sozer

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## Also known as

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## Country

Turkey

## Keywords

Composite materials manufacturing, process modeling, fabric permeability, resin flow

## Other IDs

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## Biography

Murat Sözer is a Professor in Mechanical Engineering at Koc University in Istanbul, Turkey and the director of the Office of Learning and Teaching (KOLT) in the university. He received B.S. and M.S. degrees in Mechanical Engineering at METU in Ankara, Turkey in 1986 and 1989, respectively, and Ph.D. in Mechanical Engineering at University of Delaware in 1996. His research areas include modeling and control of composite materials manufacturing processes, material characterization and porous media flows. Prof. Sozer has published 57 articles (by August 2019) in the leading journals and conference proceedings, and co-authored one book and three chapters on process modeling. He is the recipient of "Koc University Outstanding Teaching Award" in 2011-2012 academic year when it was organized for the first time in the university history.

## Employment (1)

---

### Koç University: Istanbul, TR

2000-08-01 to present | Prof. (Mechanical Engineering)

Employment

**Source:** E. Murat Sozer

### Education and qualifications (3)

---

**University of Delaware: Newark, Delaware, US**

1989-08-01 to 2016-01-01 | PhD (Mechanical Engineering)

Education

**Source:** E. Murat Sozer**Middle East Technical University: Ankara, Ankara, TR**

1986-09-01 to 1989-06-30 | M.S. (Mechanical Engineering)

Education

**Source:** E. Murat Sozer**Middle East Technical University: Ankara, Ankara, TR**

1981-09-01 to 1986-06-30 | B.S. (Mechanical Engineering)

Education

**Source:** E. Murat Sozer

### Membership and service (1)

---

**Koç University: Istanbul, TR**

2012-09-01 to present | Director (Office of Learning and Teaching, KOLT)

Service

**Source:** E. Murat Sozer

### Funding (4)

---

**Developing a hybrid composite manufacturing process that will resolve the issues of VARTM, FASTRAC and VIPR processes by technological improvements and process control**

TUBITAK (Ankara)

2012-11 to 2015-05|Grant

GRANT\_NUMBER: MAG-112M400

**Source:** E. Murat Sozer**Mold design, process control and enhancement of part quality in carbon fiber reinforced composites using resin transfer molding (RTM) and vacuum infusion (VI) processes**

Ford Motor Company (MI, MI)

2012-04 to 2015-03|Grant

**Source:** E. Murat Sozer

**Automated manufacture of composite materials by solving the issues of RTM process**

TUBITAK (Ankara)

2005-04 to 2009-01|Grant

GRANT\_NUMBER: MAG-104M290

**Source:** E. Murat Sozer**Control of resin transfer molding (RTM) composite manufacturing process with mold filling simulations**

TUBITAK (Ankara)

2001-08 to 2003-02|Grant

**Source:** E. Murat Sozer**Works (38 of 38)**

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2019 | journal-article

DOI: 10.1002/pc.25130

EID: 2-s2.0-85052078972

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2019 | journal-article

DOI: 10.1016/j.compositesa.2019.03.040

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2019 | journal-article

DOI: 10.1080/14703297.2018.1453369

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*Composites Part A: Applied Science and Manufacturing*

2019 | journal-article

DOI: 10.1016/j.compositesa.2019.03.006

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**Source:** Scopus - Elsevier

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*Journal of Manufacturing Science and Engineering,*

*Transactions of the ASME*

2019 | journal-article

DOI: 10.1115/1.4041569

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**Using mid-semester course evaluation as a feedback tool for improving learning and teaching in higher education**

*Assessment and Evaluation in Higher Education*

2019 | journal-article

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2018 | journal-article

DOI: 10.1016/j.compositesa.2018.07.036

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**Effect of permeability characterization at different boundary and flow conditions on vacuum infusion process modeling**

*Journal of Reinforced Plastics and Composites*

2017 | journal-article

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EID: 2-s2.0-85015767092

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**Fabrication of high quality composite laminates by pressurized and heated-VARTM***Composites Part A: Applied Science and Manufacturing*

2017 | journal-article

DOI: 10.1016/j.compositesa.2017.08.017

EID: 2-s2.0-85028742369

**Source:** Scopus - Elsevier**Permeability of textile fabrics with spherical inclusions***Composites Part A: Applied Science and Manufacturing*

2017 | journal-article

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2017 | journal-article

DOI: 10.1177/0021998316685164

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2016 | conference-paper

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*Journal of Reinforced Plastics and Composites*

2015 | journal-article

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2015 | journal-article

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*Manufacturing Techniques for Polymer Matrix Composites (PMCs)*

2012 | book-chapter

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2011 | journal-article

EID: 2-s2.0-84862064768

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second edition***Process Modeling in Composites Manufacturing, Second Edition*

2010 | book

EID: 2-s2.0-85054644914

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2009 | journal-article

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