

## Prof.Dr. UMUT TOPAL

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: AAW-5374-2020

Yoksis Araştırmacı ID: 133814

### Eğitim Bilgileri

Doktora, Karadeniz Teknik Üniversitesi, -, İnşaat Mühendisliği, Türkiye 2003 - 2009

Yüksek Lisans, Karadeniz Teknik Üniversitesi, -, İnşaat Mühendisliği, Türkiye 2000 - 2003

Lisans, Yıldız Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği, Türkiye 1994 - 1998

### Araştırma Alanları

Katı Cisimler Mekanığı, İnşaat Mühendisliği, Mekanik, Yapı Mekanığı, Yapı Dinamiği, Yapı Stabilitesi, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Doç.Dr., Karadeniz Teknik Üniversitesi, -, İnşaat Mühendisliği, 2011 - Devam Ediyor

Öğretim Görevlisi Dr., Karadeniz Teknik Üniversitesi, -, İnşaat Mühendisliği, 2009 - 2011

Öğretim Görevlisi, Karadeniz Teknik Üniversitesi, -, İnşaat Mühendisliği, 2006 - 2009

Araştırma Görevlisi, Karadeniz Teknik Üniversitesi, -, İnşaat Mühendisliği, 2000 - 2003

### Akademik İdari Deneyim

Karadeniz Teknik Üniversitesi, 2011 - Devam Ediyor

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A local-global optimization approach for maximizing the multiphysics frequency response of laminated functionally graded CNTs reinforced magneto-electro-elastic plates**  
Ly D., Nguyen-Thoi T., Topal U., Thongchom C.  
Advances in Engineering Software, cilt.190, 2024 (SCI-Expanded)
- II. **SABO algorithm for optimum design of truss structures with multiple frequency constraints**  
Goodarzimehr V., Topal U., Das A. K., Vo-Duy T.  
MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, 2024 (SCI-Expanded)

- III. **Improved chaos game optimization algorithm for optimal frequency prediction of variable stiffness curvilinear composite plate**  
Goodarzimehr V., TOPAL U., Vo-Duy T., Shojaee S.  
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, cilt.42, sa.19-20, ss.1054-1066, 2023 (SCI-Expanded)
- IV. **Bonobo optimizer algorithm for optimum design of truss structures with static constraints**  
Goodarzimehr V., Topal U., Das A. K., Vo-Duy T.  
Structures, cilt.50, ss.400-417, 2023 (SCI-Expanded)
- V. **Stochastic normal mode frequency analysis of hybrid angle ply laminated composite skew plate with opening using a novel approach**  
Mishra B. B., Kumar A., Topal U.  
MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, cilt.51, sa.1, ss.275-309, 2023 (SCI-Expanded)
- VI. **Maximization of the fundamental frequency of the FG-CNTRC quadrilateral plates using a new hybrid PSOG algorithm**  
TOPAL U., Goodarzimehr V., Bardhan A., Vo-Duy T., Shojaee S.  
COMPOSITE STRUCTURES, cilt.295, 2022 (SCI-Expanded)
- VII. **Optimal Response Prediction of Composite Honeycomb Sandwich Plate: Theoretical and Experimental Verification**  
Rajamohan V., Sudhagar P. E., Praveen A. P., TOPAL U., Panda S. K., Trung Vo-Duy T. V.  
INTERNATIONAL JOURNAL OF APPLIED MECHANICS, cilt.14, sa.04, 2022 (SCI-Expanded)
- VIII. **Optimal deflection and stacking sequence prediction of curved composite structure using hybrid (FEM and soft computing) technique**  
Sharma N., Lalepalli A. K., Hirwani C. K., Das A., Panda S. K., TOPAL U., DEDE T.  
Engineering with Computers, cilt.37, ss.477-487, 2021 (SCI-Expanded)
- IX. **Multiobjective optimization of angle-ply laminated plates for maximum buckling load**  
Topal U., Uzman U.  
FINITE ELEMENTS IN ANALYSIS AND DESIGN, cilt.46, sa.3, ss.273-279, 2010 (SCI-Expanded)
- X. **Effect of Rectangular/Circular Cutouts on Thermal Buckling Load Optimization of Angle-Ply Laminated Thin Plates**  
Topal U., Uzman U.  
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, cilt.17, sa.2, ss.93-110, 2010 (SCI-Expanded)
- XI. **Frequency optimization of laminated general quadrilateral and trapezoidal thin plates**  
Topal U.  
MATERIALS & DESIGN, cilt.30, sa.9, ss.3643-3652, 2009 (SCI-Expanded)
- XII. **Multiobjective optimization of laminated composite cylindrical shells for maximum frequency and buckling load**  
Topal U.  
MATERIALS & DESIGN, cilt.30, sa.7, ss.2584-2594, 2009 (SCI-Expanded)
- XIII. **Frequency optimization of laminated folded composite plates**  
TOPAL U., Uzman U.  
MATERIALS & DESIGN, cilt.30, sa.3, ss.494-501, 2009 (SCI-Expanded)
- XIV. **Effects of nonuniform boundary conditions on the buckling load optimization of laminated composite plates**  
TOPAL U., Uzman U.  
MATERIALS & DESIGN, cilt.30, sa.3, ss.710-717, 2009 (SCI-Expanded)
- XV. **Thermal buckling load optimization of angle-ply laminated cylindrical shells**  
TOPAL U., Uzman U.  
MATERIALS & DESIGN, cilt.30, sa.3, ss.532-536, 2009 (SCI-Expanded)
- XVI. **Strength optimization of laminated composite plates**  
TOPAL U., Uzman U.  
JOURNAL OF COMPOSITE MATERIALS, cilt.42, sa.17, ss.1731-1746, 2008 (SCI-Expanded)
- XVII. **Thermal buckling load optimization of laminated composite plates**

- TOPAL U., Uzman U.  
THIN-WALLED STRUCTURES, cilt.46, sa.6, ss.667-675, 2008 (SCI-Expanded)
- XVIII. **Maximization of buckling load of laminated composite plates with central circular holes using MFD method**  
TOPAL U., Uzman U.  
STRUCTURAL AND MULTIDISCIPLINARY OPTIMIZATION, cilt.35, sa.2, ss.131-139, 2008 (SCI-Expanded)
- XIX. **Frequency optimization of laminated composite angle-ply plates with circular hole**  
TOPAL U., Uman U.  
MATERIALS & DESIGN, cilt.29, sa.8, ss.1512-1517, 2008 (SCI-Expanded)
- XX. **Optimum design of laminated composite plates to maximize buckling load using MFD method**  
Topal U., Uzman U.  
THIN-WALLED STRUCTURES, cilt.45, ss.660-669, 2007 (SCI-Expanded)
- XXI. **Optimal design of laminated composite plates to maximise fundamental frequency using MFD method**  
Topal U., Uzman U.  
STRUCTURAL ENGINEERING AND MECHANICS, cilt.24, sa.4, ss.479-491, 2006 (SCI-Expanded)

### **Düger Dergilerde Yayınlanan Makaleler**

- I. **Evaluation of the seismic behavior of semi-supported steel shear walls with different ratio and shape of openings**  
Kholerdi S. E. S., Nazarimofrad E., Farrokhzad M., TOPAL U.  
AUSTRALIAN JOURNAL OF STRUCTURAL ENGINEERING, cilt.19, sa.2, ss.118-130, 2018 (ESCI)

### **Metrikler**

Yayın: 44  
Atıf (WoS): 468  
Atıf (Scopus): 528  
H-İndeks (WoS): 13  
H-İndeks (Scopus): 13