

## Assoc. Prof. Ramazan TEKERCİOĞLU

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: HPH-2359-2023

ScopusID: 14627859100

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### Education Information

Doctorate, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Matematik Mühendisliği Bölümü, Turkey 2001 - 2006

Postgraduate, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Matematik Mühendisliği Bölümü, Turkey 1998 - 2001

Undergraduate, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Matematik Mühendisliği Bölümü, Turkey 1993 - 1997

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, ÇOK KATLI VİSKOELASTİK YARI UZAYLARIN YÜZEYSEL STABİLİTE KAYBI, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Matematik Mühendisliği Bölümü, 2006

Postgraduate, SPLİNE İLE EĞRİ VE YÜZEY OLUŞTURMA, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Matematik Mühendisliği Bölümü, 2001

### Research Areas

Mathematics, Differential Equations, Fourier Analysis, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 2021 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 2018 - 2021

Assistant Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 2012 - 2018

## Courses

### Postgraduate

İleri Nümerik Analiz, Postgraduate, 2018 - 2019, 2017 - 2018

### Undergraduate

Mekanik 1, Undergraduate, 2019 - 2020

İleri Analiz 1, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

İleri Analiz 2, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Adi Diferansiyel Denklemlerin Nümerik Çözümleri, Undergraduate, 2018 - 2019, 2014 - 2015

Mekanik 1, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

Bitirme Çalışması, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Matematik Mühendisliğinde Tasarım Uygulamaları, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Sayısal Analiz, Undergraduate, 2015 - 2016

Nümerik Analiz 1, Undergraduate, 2015 - 2016, 2014 - 2015

Adi Dif. Denk. Nümerik Çöz., Undergraduate, 2013 - 2014

Matematik Analiz IV, Undergraduate, 2013 - 2014, 2012 - 2013

Mat.Müh.Tas.Uyg., Undergraduate, 2013 - 2014

Olasılık Teorisi, Undergraduate, 2012 - 2013

Nümerik Analiz 1, Undergraduate, 2013 - 2014, 2012 - 2013

Matematik Analiz III, Undergraduate, 2013 - 2014, 2012 - 2013

Matematik Analiz 2, Undergraduate, 2011 - 2012

Bilişim Etiği, Undergraduate, 2011 - 2012

Statik ve Mukavemet, Undergraduate, 2011 - 2012

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

- I. **A Hybrid Approach Combining the Lie Method and Long Short-Term Memory (LSTM) Network for Predicting the Bitcoin Return**  
Bildirici M. E., Ucan Y., Tekercioğlu R.  
Fractal and Fractional, vol.8, no.7, 2024 (SCI-Expanded)
- II. **ON THE TRAVELING WAVE SOLUTIONS OF PULSE PROPAGATION IN MONOMODE FIBER VIA THE EXTENDED KUDRYASHOV'S APPROACH**  
Tekercioğlu R.  
Thermal Science, vol.26, no.Special Issue 1, 2022 (SCI-Expanded)
- III. **Flow field analysis of grooved surfaces**  
Bayraktar S., Tekercioğlu R., Dincel A.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.16, no.9, pp.5365-5368, 2019 (SCI-Expanded)
- IV. **STRESS DISTRIBUTION CAUSED BY CO-PHASE LOCALLY SPATIALLY CURVED LAYERS IN AN INFINITE ELASTIC BODY UNDER BI-AXIAL COMPRESSION**  
Tekercioğlu R.  
THERMAL SCIENCE, vol.23, 2019 (SCI-Expanded)
- V. **SELF-EQUILIBRATED STRESSES IN THE SYSTEM COMPOSED OF A COVERING LAYER plus SPATIALLY LOCALLY CURVED REINFORCING LAYER plus HALF-SPACE**

Tekercioğlu R.

THERMAL SCIENCE, vol.23, 2019 (SCI-Expanded)

- VI. **Dispersion relations of axisymmetric wave propagation in finite pre-stretched compound circular cylinders made from highly elastic incompressible materials**

AKBAROV S., Guliev M., Tekercioğlu R.

CMES - Computer Modeling in Engineering and Sciences, vol.55, no.1, pp.1-31, 2010 (SCI-Expanded)

- VII. **Surface undulation instability of the viscoelastic half-space covered with the stack of layers in bi-axial compression**

Akbarov S., TEKERCIOĞLU R.

INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.49, no.6, pp.778-789, 2007 (SCI-Expanded)

- VIII. **Near-surface buckling instability of a system consisting of a moderately rigid substrate, a viscoelastic bond layer, and an elastic covering layer**

Akbarov S., TEKERCIOĞLU R.

MECHANICS OF COMPOSITE MATERIALS, vol.42, no.4, pp.363-372, 2006 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The real forms of the S3-graded algebras  $sl(2, C)$**

Uçan Y., Tekercioğlu R., Yeşil Ü.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.43, no.3, pp.1-11, 2025 (ESCI)

- II. **On the optical soliton solutions of (2+1)-Biswas-Milovic equation via modified new Kudryashov method**

Tekercioğlu R.

Avrupa Bilim ve Teknoloji Dergisi, vol.51, pp.14-20, 2023 (Peer-Reviewed Journal)

- III. **Non-topological Soliton Solution of (2+1)-dimensional Complex Three Coupled Nonlinear Maccari's Model via Modified New Kudryashov Scheme**

ÖZİŞİK M., TEKERCİOĞLU R.

Avrupa Bilim ve Teknoloji Dergisi, 2022 (Peer-Reviewed Journal)

- IV. **Yarı Uzay Üzerinde İki Katlı Yerel Eğrilikli Levha ile Bir Örtün Levhadan Oluşan Sistemde Normal Gerilmeler Hakkında**

TEKERCİOĞLU R.

Avrupa Bilim ve Teknoloji Dergisi, no.19, pp.866-872, 2020 (Peer-Reviewed Journal)

## Papers Published in Refereed Scientific Meetings

- I. **On a Stress Analysis in an Infinite Elastic Body with Local Curving of Layers Under Bi-axial Compression**

TEKERCİOĞLU R.

International Conference on Applied Analysis and Mathematical Modeling (ICAAMM 2019), İstanbul, Turkey, 10 March 2019, pp.187

- II. **Stress Distribution Caused by Local Curving of Layers in an Infinite Elastic Body under Bi-axial Compression**

Tekercioğlu R.

International Conference on Mathematics: An Istanbul Meeting for World Mathematicians, İstanbul, Turkey, 03 July 2018 - 06 July 2019, pp.304

- III. **Self-balanced stresses in the system consisting of a covering layer + spatially locally curved layer + half-space**

TEKERCİOĞLU R., AKBAROV S. D.

ICCESEN 2017, Antalya, Turkey, 04 October 2017, vol.1, no.1, pp.517

- IV. **Legendre-Wavelet Galerkin Method for the Solution of Fractional Order Differential Equations System**  
Seçer A., Taşçı F., Turan Dincel A., Tekercioğlu R.  
ICCESEN 2017, Antalya, Turkey, 04 October 2017, vol.1, no.1, pp.204
- V. **Flow Field Analysis of Grooved Surfaces**  
BAYRAKTAR S., TEKERCİOĞLU R., TURAN DİNCEL A.  
4th International Conference on Computational and Experimental Science and Engineering, 4 - 08 October 2017
- VI. **S3 Graded iso (1,2)**  
Uçan Y., Köşker R., Tekercioğlu R.  
6th International Eurasian Conference on Mathematical Sciences and Applications, Budapest, Hungary, 15 - 18 August 2017, pp.30-31
- VII. **Stress Distribution In Layered Half-Space Caused By Spatially Local Curving Of The Near-Surface Reinforcing Layer**  
TEKERCİOĞLU R.  
XVIII International Conference, Mechanics Of Composite Materials, Riga, Latvia, 02 June 2014, vol.1, no.1, pp.183
- VIII. **Fractional Supersymmetric  $sl(2)$ :  $U35(sl(2))$  and  $U36(sl(2))$**   
UÇAN Y., KÖŞKER R., TEKERCİOĞLU R., TURAN DİNCEL A.  
IECMSA-2013: 2nd International Eurasian Conference on Mathematical Sciences and Applications, Sarajevo, Kosova, 26 August 2013, pp.217
- IX. **Near-surface stability loss of a system consisting of a moderately rigid half-space, a viscoelastic bond and covering elastic layers in a bi-axial compression**  
AKBAROV S. D., TEKERCİOĞLU R.  
Conference on Damage in Composite Materials: Non-Destructive Testing and Simulation (CDCM06), Stuttgart, Germany, 18 September 2006, pp.155-156
- X. **Surface Instability of a System Consisting of a Moderately Rigid Substrate, Viscoelastic Bonding Layer, and an Elastic Covering Layer**  
AKBAROV S. D., TEKERCİOĞLU R.  
XIV International Conference - Mechanics of Composite Materials, Riga, Latvia, 29 May 2006, pp.7
- XI. **Near-surface fracture of the visco-elastic layered composites in compression**  
AKBAROV S. D., TEKERCİOĞLU R.  
7th International Fracture Conference (IFC-7), Kocaeli, Turkey, 19 October 2005, vol.2, pp.763-773
- XII. **İki katlı visko-elastik levha ile örtülmüş yarı-düzlemin yüzeysel stabilite kaybı**  
AKBAROV S. D., TEKERCİOĞLU R.  
XIV. Ulusal Mekanik Kongresi, Hatay, Turkey, 12 September 2005, pp.35-44
- XIII. **Near-surface stability loss of the stratified visco-elastic half-space in a bi-axial compression**  
AKBAROV S. D., TEKERCİOĞLU R.  
Twelfth Annual International Conference on Composites/Nano Engineering (ICCE-12), Tenerife, Canary Islands, Spain, 01 August 2005, pp.1-2

## Supported Projects

TEKERCİOĞLU R., BİLDİRİCİ M. E., UÇAN Y., Project Supported by Higher Education Institutions, Lie Grup ve Cebirlerinin Uygulamaları, 2024 - 2024

KÖKLÜ K., TEKERCİOĞLU R., TEKİN GÖK E., KÖKLÜ A., TUNCER R. G., ÇELİK R., Project Supported by Higher Education Institutions, 2023 Ocak ve Şubat Aylarında Meydana Gelen Güneş Patlamalarının 6 Şubat 2023 Kahramanmaraş Depremine Olası Etkilerinin Matematiksel Modellenmesi, 2023 - 2024

UÇAN Y., TEKERCİOĞLU R., YEŞİL Ü., Project Supported by Higher Education Institutions, Kesirsel Süpersimetrik Lie Cebirlerinin Reel Formları Üzerine, 2023 - 2024

## **Metrics**

Publication: 25

Citation (WoS): 26

Citation (Scopus): 31

H-Index (WoS): 3

H-Index (Scopus): 3