

Assoc. Prof. Arzu ÇİLLİ

Personal Information

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International Researcher IDs

ORCID: 0000-0002-0596-3637

Publons / Web Of Science ResearcherID: AAZ-5655-2020

ScopusID: 6701520977

Yoksis Researcher ID: 112669

Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizik, Turkey 1992 - 1998

Postgraduate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, Turkey 1989 - 1991

Undergraduate, Yıldız Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Lisans, Turkey 1985 - 1989

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, Tek yönlü lif-levhalı kompozitlerin basınç altında kırılma problemleri, Yildiz Technical University, Faculty of Arts & Science, Department of Physics, 1998

Postgraduate, Percus-Yevick Denklemine Tek Boyutta Analitik Çözümü, Yildiz Technical University, Faculty of Arts & Science, Department of Physics, 1992

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Biophysics and Medical Physics, Materials Science, Natural Sciences

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2015 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 1999 - 2015

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 1991 - 1999

Academic and Administrative Experience

Bölüm Tanıtım ve Mezunlarla İlişkiler Komisyonu Başkanı, Yıldız Technical University, Faculty of Arts & Science, Department of Physics, 2019 - Continues
Head of Department, Yıldız Technical University, Faculty of Arts & Science, Department of Physics, 2008 - 2009

Courses

Fizik II, Undergraduate, 2018 - 2019
Fizik I, Undergraduate, 2018 - 2019
Fizikte Diferansiyel Denklemler, Undergraduate, 2018 - 2019
Fizikte Uygulamalı Matematik Metodlar I, Postgraduate, 2017 - 2018
Modern Fiziğe Giriş, Undergraduate, 2017 - 2018
Fizikte Matematik Yöntemler 2, Undergraduate, 2015 - 2016
Fizikte Matematik Yöntemler 1, Undergraduate, 2015 - 2016
Fizik I, Undergraduate, 2007 - 2008
Fizik II, Undergraduate, 2005 - 2006
Fizik I, Undergraduate, 2005 - 2006

Advising Theses

Çilli A., Öngerilmeli dairesel bileşik silindirlerde burulma dalga yayılımı, Doctorate, A.Öztürk(Student), 2007

Jury Memberships

Doctorate, Doctorate, İstanbul Üniversitesi, July, 2024
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, June, 2024
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, November, 2023
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, November, 2023
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, November, 2023
Post Graduate, Post Graduate, İstanbul Üniversitesi, January, 2023
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2022
Post Graduate, Post Graduate, İstanbul Üniversitesi, June, 2022
Doctorate, Doctorate, İstanbul Üniversitesi, February, 2022
Post Graduate, Post Graduate, İstanbul Üniversitesi, January, 2022
Doctorate, Doctorate, İstanbul Üniversitesi, December, 2021
Post Graduate, Post Graduate, İstanbul Üniversitesi, November, 2021
Doctorate, Doctorate, İstanbul Üniversitesi, October, 2021
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2021
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2021
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2021
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2021
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, November, 2020
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, March, 2020
Post Graduate, Post Graduate, İstanbul Üniversitesi, January, 2020
Doctorate, Doctorate, İstanbul Üniversitesi, September, 2019
Post Graduate, Post Graduate, İstanbul Üniversitesi, August, 2019

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, May, 2019
Doctorate, Doctorate, İstanbul Üniversitesi, February, 2019
Doctorate, Doctorate, İstanbul Üniversitesi, February, 2019
Post Graduate, Post Graduate, İstanbul Üniversitesi, January, 2019
Post Graduate, Post Graduate, İstanbul Üniversitesi, January, 2019
Doctorate, Doctorate, İstanbul Üniversitesi, December, 2018
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İstanbul Üniversitesi, March, 2018
Doctorate, Doctorate, Yıldız Teknik Üniversitesi, December, 2017
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Haliç Üniversitesi, March, 2017
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, December, 2016
Doctorate, Doctorate, Yıldız Teknik Üniversitesi, August, 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Influence of prestress on the natural frequency of a fluid-filled FGM sphere**
Akbarov S., Çilli A., Yahnioğlu N.
EMERGING MATERIALS RESEARCH, vol.8, no.4, pp.663-667, 2019 (SCI-Expanded)
- II. **Predicting Epidemic Diseases using Mathematical Modelling of SIR**
Ergen K., ÇİLLİ A., YAHNIOĞLU N.
ACTA PHYSICA POLONICA A, vol.128, 2015 (SCI-Expanded)
- III. **On the theoretical strength limit of the layered elastic and viscoelastic composites in compression**
Çilli A.
APPLIED MATHEMATICAL MODELLING, vol.35, no.11, pp.5470-5479, 2011 (SCI-Expanded)
- IV. **Dispersion of torsional waves in initially stressed multilayered circular cylinders**
ÇİLLİ A., Ozturk A.
MECHANICS OF COMPOSITE MATERIALS, vol.46, no.2, pp.227-236, 2010 (SCI-Expanded)
- V. **The theoretical strength limit in compression of viscoelastic layered composite materials**
Akbarov S., CILLI A., GUZ A.
COMPOSITES PART B-ENGINEERING, vol.30, no.5, pp.465-472, 1999 (SCI-Expanded)

Articles Published in Other Journals

- I. **Determination of Theoretical Fracture Criteria of Layered Elastic Composite Material by ANFIS Method from Artificial Intelligence**
Çilli A., Beken M., Kurt N.
International Journal of Computational and Experimental Science and Engineering (IJCESEN), vol.8, no.2, pp.32-39, 2022 (Peer-Reviewed Journal)
- II. **Salgın Hastalıkların Tahmininde Kullanılan SI ve SIS Modellerin Uygulamaları**
Çilli A., Ergen K.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.8, no.3, pp.755-761, 2019 (Peer-Reviewed Journal)
- III. **Investigation of Various Infectious Diseases in Turkey by Mathematical Models SI and SIS**
Çilli A., Ergen K.
International Journal of Computational and Experimental Science and Engineering, vol.5, no.2, pp.72-75, 2019 (Peer-Reviewed Journal)
- IV. **SOME MATHEMATICAL MODELS AND APPLICATIONS USED IN EPIDEMICS**
ÇİLLİ A., Ergen K., AKAT E.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.37, no.1, pp.17-23, 2019 (ESCI)
- V. **Investigation of various epidemic diseases in some countries by mathematical models SI and SIS**

- Çilli A., Ergen K.
AIP Conference Proceedings, vol.1815, no.1, pp.1-4, 2017 (Conference Book)
- VI. **Theoretical Fracture Criterion of the Layered Elastic Composite Materials**
Çilli A.
AIP Conference Proceedings, vol.1722, no.250001, pp.1-4, 2016 (Conference Book)
- VII. **Torsional Wave Dispersion in the Pre-Stretched Circular Composite Hollow Cylinder**
Öztürk A., Çilli A.
Balkan Physics Letters, vol.15, no.1, pp.1-10, 2009 (Peer-Reviewed Journal)
- VIII. **Torsional Wave Propagation in the Pre-stretched Many Layered Circular Cylinders**
ÇİLLİ A.
Balkan Physics Letters, no.1, pp.173-180, 2007 (Peer-Reviewed Journal)
- IX. **The Influence of The Rheological Parameters to The Theoretical Strength Limit in Compression of Viscoelastic Unidirectional Composite Materials**
Çilli A.
YTÜ Dergisi, vol.4, no.1, pp.1-5, 2002 (Peer-Reviewed Journal)
- X. **On The Fracture of The Layered Medium under Compression**
ÇİLLİ A.
Balkan Physics Letters, vol.7, no.4, pp.225-229, 1999 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **TFD Türk Fizik Derneği 17. Fizik Kongresi Özetler Kitapçığı**
Çilli A. (Editor)
Türk Fizik Derneği, İstanbul, 1998

Refereed Congress / Symposium Publications in Proceedings

- I. **Prediction of Total Fouling Resistance of a Marine Heat Exchanger Using Anfis Method**
Kurt N., Çilli A., Beken M., Ezgi C.
37th Turkish Physical Society International Physics Congress , Muğla, Turkey, 1 - 05 September 2021, pp.229
- II. **Estimation of Spread Size of Epidemic Diseases with Artificial Intelligence**
Çilli A., Beken M., Kurt N., Ergen K.
TFD36-36.Uluslararası Fizik Kongresi, İstanbul, Turkey, 1 - 05 September 2020, pp.160
- III. **Determination of Theoretical Fracture Criteria of Composite Material Using Artificial Intelligence Methods**
Çilli A., Beken M., Kurt N.
TFD36-36.Uluslararası Fizik Kongresi, İstanbul, Turkey, 1 - 05 September 2020, pp.159
- IV. **Mathematical Models for Epidemics**
ÇİLLİ A., Ergen K.
7th International Eurasian Conference on Mathematical Sciences and Applications, Kiev, Ukraine, 28 August 2018, pp.97
- V. **INFLUENCE OF THE INHOMOGENEOUS INITIAL STRESS ON THE NATURAL FREQUENCIES OF A FLUID-FILLED HOLLOW SPHERE MADE OF FGM**
AKBAROV S., ÇİLLİ A., YAHNİOĞLU N.
5th International Conference on Computational and Experimental Science and Engineering (ICCESEN 2018), Antalya, Turkey, 12 October 2018, vol.1, no.1, pp.217
- VI. **Investigation of Various Infectious Diseases in Turkey by Mathematical Models SI and SIS**
ÇİLLİ A., ERGEN K.
ICCESEN 2017, Antalya, Turkey, 04 October 2017, pp.150

- VII. **Fracture properties of composite materials with local curvature in the structure**
 ÇİLLİ A.
 33.Uluslararası Fizik Kongresi, Muğla, Turkey, 06 September 2017, pp.682
- VIII. **SI and SIS Mathematical Models and Applications used in Epidemic Diseases**
 ÇİLLİ A., Ergen K., Akat E.
 International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 03 July 2017, pp.31
- IX. **Investigation of Various Diseases' Development According to Their Countries by Mathematical Models**
 Çilli A., Ergen K.
 32nd International Physics Congress of Turkish-Physical-Society , Muğla, Turkey, 6 - 09 September 2016, pp.233
- X. **Comparisons of Various Mathematical Models for Predicting the Effects of Epidemic Diseases**
 ÇİLLİ A., ERGEN K., AKAT E.
 ICCESSEN, Antalya, Turkey, 14 October 2015, pp.452
- XI. **Theoretical Fracture Criterion of the Layered Elastic Composite Materials**
 Çilli A.
 9th International Physics Conference of the Balkan-Physical-Union (BPU-9), İstanbul, Turkey, 24 - 27 August 2015, pp.489
- XII. **Predicting Epidemic Diseases Using Mathematical Modelling of SIR**
 ERGEN K., ÇİLLİ A., YAHNIOĞLU N.
 Internatinal Conference on Computational and Experimental Science and Engineering (ICCESSEN), 25 - 29 October 2014, pp.572
- XIII. **The dependence between the theoretical fracture limit and angle beta for layered composites**
 Çilli A.
 Türk Fizik Derneği 31. Uluslararası Fizik Kongresi, Muğla, Turkey, 21 - 24 July 2014, vol.1, pp.471
- XIV. **THE THEORETICAL FRACTURE LIMIT OF THE LAYERED COMPOSITES UNDER PRESSURE**
 Çilli A.
 TURKISH PHYSICAL SOCIETY 29TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 5 - 08 September 2012, vol.1, pp.771
- XV. **YAPISINDA LOKAL EĞRİSELLİK OLAN ELASTİK KOMPOZİTLERİN BASINÇ ETKİSİYLE OLUŞAN KIRILMA SINIRININ İNCELENMESİ**
 Çilli A.
 TFD 28. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2011, vol.1, pp.912
- XVI. **Torsional wave dispersion in the pre-stretched circular composite hollow cylinder**
 Öztürk A., Çilli A.
 Türk Fizik Derneği 25. Uluslararası Fizik Kongresi, Muğla, Turkey, 25 - 29 August 2008, pp.124
- XVII. **Dispersion of Torsional waves in Initially Stressed Multilayered Circular Cylinders**
 Çilli A., Öztürk A.
 Conference of Mechanics of Composite Materials-2008, Riga, Latvia, 26 - 30 May 2008, pp.64-65
- XVIII. **On the Theoretical Strength Limit of the Layered Elastic Composites in Compression**
 Çilli A.
 8th International Fracture Conference, İstanbul, Turkey, 7 - 09 November 2007, pp.137-146
- XIX. **Torsional wave Propagation in the Pre-Stretched Many layered Circular Cylinders**
 Öztürk A., Çilli A.
 TFD24 International Physics Conference, Malatya, Turkey, 28 - 31 August 2007, pp.99
- XX. **The Influence of the rheological Parameters to the Theoretical Strength Limit in Compression of Viscoelastic Unidirectional Composite Materials**
 Çilli A.
 Türk Fizik Derneği 17. Fizik Kongresi, Antalya, Turkey, 27 - 31 October 1998, pp.115
- XXI. **On the Determination of the Theoretical Strength Limit in Compression of Viscoelastic Unidirectional Composite Materials**
 Akbarov S., Çilli A.

- 2nd Pacific-Asia Conference on Mechanical Engineering, Manila, Philippines, 9 - 11 September 1998, pp.1-10
- XXII. **On the Determination of the Theoretical Strength Limit in Compression of Unidirectional Composite Materials**
Akbarov S., Çilli A.
Continuum Models and Discrete Systems (CMDS9), İstanbul, Turkey, 29 June - 03 July 1998, pp.74-80
- XXIII. **On the Fracture of the Layered Medium Under Compression**
Çilli A.
3rd General Conference of the Balkan Physical Union, Cluj-Napoca, Romania, 2 - 05 September 1997, pp.359

Supported Projects

Çilli A., Other International Funding Programs, Parçalı homojen ortamların basınç altında dağılmasının teorik olarak incelenmesi, 1997 - 1999

Activities in Scientific Journals

AIP Conference Proceedings, Committee Member, 2017 - 2018

Memberships / Tasks in Scientific Organizations

Türk Fizik Derneği, Member, 1992 - Continues

Türk Fizik Derneği İstanbul Şubesi, Chairman, 2007 - 2014

Scientific Refereeing

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI ,
Journal Indexed in ESCI, January 2021

American Institute of Physics Conference Proceedings, Other Indexed Journal, November 2018

CANADIAN JOURNAL OF PHYSICS, SCI Journal, November 2017

American Institute of Physics (AIP) Conference Proceedings, Other Indexed Journal, December 2016

Balkan Physics Letters, Other Journals, December 2015

AIP-Conference Proceedings, Other Indexed Journal, December 2015

9th International Physics Conference of the Balkan Physical Union, Conference Paper (Abstract), August 2015

Balkan Physics Letters, Other journals, December 2014

Balkan Physics Letters, Other journals, October 2013

Balkan Physics Letters, Other journals, February 2011

Tasks In Event Organizations

Çilli A., 39.Uluslararası Fizik Kongresi, Scientific Congress, Muğla, Turkey, Eylül 2023

Çilli A., 38th Turkish Physical Society International Physics Congress, Scientific Congress, Muğla, Turkey, Eylül 2022

Çilli A., 37th Turkish Physical Society International Physics Congress, Scientific Congress, Muğla, Turkey, Eylül 2021

Çilli A., TFD 36. Uluslararası Fizik Kongresi, Scientific Congress, İstanbul, Turkey, Eylül 2020

Çilli A., Türk Fizik Derneği 35. Uluslararası Fizik Kongresi, Scientific Congress, Muğla, Turkey, Eylül 2019

Çilli A., Türk Fizik Derneği 34. Uluslararası Fizik Kongresi, Scientific Congress, Muğla, Turkey, Eylül 2018

Çilli A., Türk Fizik Derneği 33. Uluslararası Fizik Kongresi, Scientific Congress, Muğla, Turkey, Eylül 2017

Çilli A., 9.Uluslararası Balkan Fizik Kongresi, Scientific Congress, İstanbul, Turkey, Ağustos 2015

Çilli A., Türk Fizik Derneği 22. Fizik Kongresi, Scientific Congress, Muğla, Turkey, Eylül 2014
Çilli A., Türk Fizik Derneği 29. Uluslararası Fizik Kongresi, Scientific Congress, Muğla, Turkey, Eylül 2012
Çilli A., 28.Uluslararası Fizik Kongresi, Scientific Congress, Muğla, Turkey, Eylül 2011
Çilli A., Türk Fizik Deneği 27. Uluslararası Fizik Kongresi, Scientific Congress, İstanbul, Turkey, Eylül 2010
Çilli A., Türk Fizik Derneği 26.Uluslararası Fizik Kongresi, Scientific Congress, Muğla, Turkey, Eylül 2009
Çilli A., Türk Fizik Derneği 26. Uluslararası Fizik Kongresi, Scientific Congress, Muğla, Turkey, Ağustos 2008
Çilli A., Türk Fizik Derneği 24.Uluslararası Fizik Kongresi, Scientific Congress, Malatya, Turkey, Ağustos 2007
Çilli A., 6. Uluslararası Balkan Fizik Konferansı, Scientific Congress, İstanbul, Turkey, Ağustos 2006
Çilli A., 2005 Dünya Fizik Yılı Türk Fizik Derneği 23. Uluslararası Fizik Kongresi, Scientific Congress, Muğla, Turkey, Eylül 2005
Çilli A., First Hellenic-Turkish International Physics Conference, Scientific Congress, Muğla, Turkey, Eylül 2001
Çilli A., Türk Fizik Derneği 18. Fizik Kongresi, Scientific Congress, Adana, Turkey, Ekim 1999
Çilli A., Türk Fizik Deneği 17.Fizik Kongresi, Scientific Congress, Antalya, Turkey, Ekim 1998
Can Ömür B., Çilli A., Türk Fizik Derneği 16. Fizik Kongresi, Scientific Congress, Turkey, Ağustos 1996
Can Ömür B., ÇİLLİ A., Türk Fizik Derneği 15. Fizik Kongresi, Scientific Congress, Antalya, Turkey, Eylül 1995

Metrics

Publication: 39
Citation (WoS): 34
Citation (Scopus): 49
H-Index (WoS): 3
H-Index (Scopus): 3

Congress and Symposium Activities

40.Uluslararası Fizik Kongresi, Attendee, Muğla, Turkey, 2024
39. Uluslararası Fizik Kongresi, Attendee, Muğla, Turkey, 2023
Türk Fizik Derneği 35. Uluslararası Fizik Kongresi, Session Moderator, Muğla, Turkey, 2019
Turkish Physical Society 34th International Physics Congress, Session Moderator, Muğla, Turkey, 2018
Türk Fizik Derneği 34. Fizik Kongresi, Session Moderator, Muğla, Turkey, 2018
IECMSA-2018, Session Moderator, Kyiv, Ukraine, 2018
ICCESEN 2017, Session Moderator, Antalya, Turkey, 2017
Turkish Physical Society 33rd International Physics Congress, Session Moderator, Muğla, Turkey, 2017
ICAAMM 2017, Attendee, İstanbul, Turkey, 2017
Turkish Physical Society 32nd International Physics Congress, Session Moderator, Muğla, Turkey, 2016
ICCESEN 2015, Attendee, Antalya, Turkey, 2015
9th International Physics Conference of the Balkan Physical Union, Attendee, İstanbul, Turkey, 2015
ICCESEN 2014, Attendee, Antalya, Turkey, 2014
Türk Fizik Derneği 31. Uluslararası Fizik Kongresi, Attendee, Muğla, Turkey, 2014
Mechanics of Composite Materials Conference 2008, Attendee, Riga, Latvia, 2008
24. Uluslararası Fizik Kongresi, Attendee, Malatya, Turkey, 2007
3rd General Conference of the Balkan Physical Union, Attendee, Cluj-Napoca, Romania, 1997

Awards

Çilli A., Türk Fizik Derneği Onur Ödülü 2016, Türk Fizik Derneği, September 2016

Representation and Promotion Activities

Institutional Promotion, Yıldız Teknik Üniversitesi, Turkey, İstanbul, 2024 - 2024

Non Academic Experience

Yıldız Teknik Üniversitesi

DOĞUŞ ÜNİVERSİTESİ