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### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: B-9993-2016

ScopusID: 6602320553

Yoksis Araştırmacı ID: 9639

### Eğitim Bilgileri

Doktora, Fırat Üniversitesi, Fen Bilimleri, İnşaat Mühendisliği-Mekanik, Türkiye 1999 - 2004

Doktora, Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, İnşaat Müh. Yapı A.B.D., Türkiye 1999 - 2003

Yüksek Lisans, Fırat Üniversitesi, Fen Bilimleri, İnşaat Mühendisliği-Mekanik, Türkiye 1996 - 1998

Lisans, Fırat Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği, Türkiye 1992 - 1996

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Yaptığı Tezler

Doktora, Polinomal Diferansiyel Quadrature (PDQ) Metodu ile Elastik Zemine Oturan Plak ve Kabukların Geometrik

Bakımdan Lineer Olmayan Statik ve Dinamik Analizi, Fırat Üniversitesi, Fen Bilimleri, İnşaat Mühendisliği-Mekanik, 2004

Yüksek Lisans, Plak ve Kabukların Nöro-Fuzzy Tekniğı ile Lineer ve Lineer Olmayan Statik-Dinamik Analizi, Fırat

Üniversitesi, Fırat Üniversitesi, Fen Bilimleri, İnşaat Mühendisliği-Mekanik, 1998

### Araştırma Alanları

Katı Cisimler Mekaniğı, İnşaat Mühendisliğı , Mekanik, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Prof. Dr., Akdeniz Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliğı, 2012 - Devam Ediyor

Doç. Dr., Akdeniz Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliğı, 2006 - 2012

Yrd. Doç. Dr., Akdeniz Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliğı, 2004 - 2006

## Yönetilen Tezler

CİVALEK Ö., Grafen tabakaların membran ve plak ile modellenmesi, Yüksek Lisans, S.Çakırtaş(Öğrenci), 2016

CİVALEK Ö., Elastik zemine oturan grafen tabakaların mekanik özelliklerinin hesabı, Yüksek Lisans, M.Cihad(Öğrenci), 2016

CİVALEK Ö., Nano boyutlu sektör ve boşluklu sektör plakların lokal olmayan elastisite teorisi ile titreşim ve eğilme analizi, Doktora, M.Gürses(Öğrenci), 2015

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

- I. **Natural frequencies and modal shapes of folded sandwich plates made of porous core and FG-CNTRC coating layers resting on two parameters elastic foundation**  
Salehipour H., Shahmohammadi M. A., CİVALEK Ö.  
Aerospace Science and Technology, cilt.148, 2024 (SCI-Expanded)
- II. **Aerodynamic stability and free vibration of FGP-Reinforced nano-fillers annular sector microplates exposed to supersonic flow**  
Arshid E., Amir S., Loghman A., CİVALEK Ö.  
Thin-Walled Structures, cilt.197, 2024 (SCI-Expanded)
- III. **The mechanical response of nanobeams considering the flexoelectric phenomenon in the temperature environment**  
Luu G. T., CİVALEK Ö., Van Tuyen B.  
Archive of Applied Mechanics, cilt.94, sa.3, ss.493-514, 2024 (SCI-Expanded)
- IV. **High frequency analysis of the functionally graded sandwich nanobeams embedded in elastic foundations using nonlocal quasi-3D theory**  
Ghazwani M. H., Alnujaie A., Van Vinh P., CİVALEK Ö.  
Physica B: Condensed Matter, cilt.675, 2024 (SCI-Expanded)
- V. **On shear-dependent vibration of nano frames**  
Numanoğlu H. M., CİVALEK Ö.  
International Journal of Engineering Science, cilt.195, 2024 (SCI-Expanded)
- VI. **Elastic medium and torsional spring effects on the nonlocal dynamic of functionally graded porous nanotubes**  
UZUN B., YAYLI M. Ö., CİVALEK Ö.  
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- VII. **An analytical solution for vibration response of CNT/GPL/fibre/polymer hybrid composite micro/nanoplates**  
Salehipour H., Shahmohammadi M. A., Folkow P. D., CİVALEK Ö.  
Mechanics of Advanced Materials and Structures, cilt.31, sa.10, ss.2094-2114, 2024 (SCI-Expanded)
- VIII. **Effect of two-dimensional material distribution on dynamic and buckling responses of graded ceramic-metal higher order beams with stretch effect**  
Bensaid I., Saimi A., CİVALEK Ö.  
Mechanics of Advanced Materials and Structures, cilt.31, sa.8, ss.1760-1776, 2024 (SCI-Expanded)
- IX. **Vibrational response of a sandwich microplate considering the impact of flexoelectricity and based on a novel porous-FGM formulation**  
Kaveh A., Babaei H., Zavari S., Arshid E., CİVALEK Ö.  
Mechanics Based Design of Structures and Machines, 2024 (SCI-Expanded)
- X. **Size-dependent Levinson beam theory for thermal vibration of a nanobeam with deformable boundary conditions**  
CİVALEK Ö., DELİKTAŞ B., UZUN B., YAYLI M. Ö.  
ZAMM Zeitschrift für Angewandte Mathematik und Mechanik, cilt.103, sa.12, 2023 (SCI-Expanded)

- XI. **Size-dependent nonlinear stability response of perforated nano/microbeams via Fourier series**  
CİVALEK Ö., UZUN B., YAYLI M. Ö.  
Archive of Applied Mechanics, cilt.93, sa.12, ss.4425-4443, 2023 (SCI-Expanded)
- XII. **Thermomechanical vibration analysis of a restrained nanobeam**  
CİVALEK Ö., UZUN B., YAYLI M. Ö.  
Microsystem Technologies, cilt.29, sa.11, ss.1601-1613, 2023 (SCI-Expanded)
- XIII. **Dynamics of a FG porous microbeam with metal foam under deformable boundaries**  
CİVALEK Ö., ERSOY H., UZUN B., YAYLI M. Ö.  
Acta Mechanica, cilt.234, sa.11, ss.5385-5404, 2023 (SCI-Expanded)
- XIV. **Fractional modelling of piezoelectric composite nanobeams via novel numerical schemes**  
Salah M., CİVALEK Ö., Ragb O.  
Applied Physics A: Materials Science and Processing, cilt.129, sa.11, 2023 (SCI-Expanded)
- XV. **On analysis of nanocomposite conical structures**  
Dastjerdi S., CİVALEK Ö., Malikan M., AKGÖZ B.  
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- XVI. **An eigenvalue solution for nonlocal vibration of guide supported perfect/imperfect functionally graded power-law and sigmoid nanobeams on one-parameter elastic foundation**  
CİVALEK Ö., UZUN B., YAYLI M. Ö.  
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- XVII. **On nonlinear stability analysis of saturated embedded porous nanobeams**  
CİVALEK Ö., UZUN B., YAYLI M. Ö.  
International Journal of Engineering Science, cilt.190, 2023 (SCI-Expanded)
- XVIII. **A study on the crack presence effect on dynamical behaviour of bi-directional compositionally imperfect material graded micro beams**  
Saimi A., Bensaid I., CİVALEK Ö.  
Composite Structures, cilt.316, 2023 (SCI-Expanded)
- XIX. **Magneto-thermoelastic interactions in an unbounded orthotropic viscoelastic solid under the Hall current effect by the fourth-order Moore-Gibson-Thompson equation**  
Abouelregal A. E., AKGÖZ B., CİVALEK Ö.  
Computers and Mathematics with Applications, cilt.141, ss.102-115, 2023 (SCI-Expanded)
- XX. **Vibration of smart sandwich plate with an auxetic core and dual-FG nanocomposite layers integrated with piezoceramic actuators**  
Nouraei M., Zamani V., CİVALEK Ö.  
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- XXI. **A Hardening Nonlocal Elasticity Approach to Axial Vibration Analysis of an Arbitrarily Supported FG Nanorod**  
UZUN B., CİVALEK Ö., YAYLI M. Ö.  
Physical Mesomechanics, cilt.26, sa.3, ss.295-312, 2023 (SCI-Expanded)
- XXII. **Free-damped vibration tangential wave responses of FG-sandwich merged hemispherical-cylindrical shells under effects of artificial springs at merging and boundary conditions**  
Sobhani E., Masoodi A. R., CİVALEK Ö., Reza Ahmadi-Pari A.  
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- XXIII. **An improved first-order mixed plate element for static bending and free vibration analysis of functionally graded sandwich plates**  
Van Vinh P., Belarbi M., AVCAR M., CİVALEK Ö.  
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- XXIV. **A hardening nonlocal approach for vibration of axially loaded nanobeam with deformable boundaries**  
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- XXV. **Higher order finite element models for transient analysis of strain gradient functionally graded**

## **microplates**

Karamanli A., Vo T. P., CİVALEK Ö.

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- XXVI. **An Accurate Computational Method for Buckling of Orthotropic Composite Plate with Non-Classical Boundary Restraints**  
Zhang J., Zhao Q., Ullah S., Zhao D., Qi W., CİVALEK Ö.  
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- XXVII. **Natural frequency investigation of graphene oxide powder nanocomposite cylindrical shells surrounded by Winkler/Pasternak/Kerr elastic foundations with a focus on various boundary conditions**  
Sobhani E., Koohestani M., CİVALEK Ö., AVCAR M.  
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- XXVIII. **Torsional and axial vibration of restrained saturated nanorods via strain gradient elasticity**  
UZUN B., CİVALEK Ö., YAYLI M. Ö.  
Archive of Applied Mechanics, cilt.93, sa.4, ss.1605-1630, 2023 (SCI-Expanded)
- XXIX. **Dynamic stability of hybrid fiber/nanocomposite-reinforced toroidal shells subjected to the periodic axial and pressure loadings**  
Shahmohammadi M. A., Mirfatah S. M., Salehipour H., Azhari F., Civalek O.  
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, cilt.30, sa.8, ss.1574-1590, 2023 (SCI-Expanded)
- XXX. **Bending and free vibration analysis of porous functionally graded sandwich plate with various porosity distributions using an extended layerwise theory**  
Belarbi M., Daikh A. A., Garg A., Hirane H., Houari M. S. A., CİVALEK Ö., Chalak H.  
Archives of Civil and Mechanical Engineering, cilt.23, sa.1, 2023 (SCI-Expanded)
- XXXI. **Critical buckling loads of embedded perforated microbeams with arbitrary boundary conditions via an efficient solution method**  
UZUN B., CİVALEK Ö., Yaylı M. Ö.  
Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, cilt.78, sa.2, ss.195-207, 2023 (SCI-Expanded)
- XXXII. **On a comprehensive analysis for mechanical problems of spherical structures**  
Dastjerdi S., Alibakhshi A., AKGÖZ B., CİVALEK Ö.  
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- XXXIII. **On nonlinear forced vibration of micro scaled panels**  
Shahmohammadi M. A., Mirfatah S. M., Salehipour H., CİVALEK Ö.  
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- XXXIV. **Torsional static and free vibration analysis of noncircular short-fiber-reinforced microwires with arbitrary boundary conditions**  
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- XXXV. **Nonlinear stability analysis of embedded restrained nanobeams using the Stokes' transformation**  
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- XXXVI. **Thermal buckling analysis of a saturated porous thick nanobeam with arbitrary boundary conditions**  
CİVALEK Ö., UZUN B., YAYLI M. Ö.  
Journal of Thermal Stresses, cilt.46, sa.1, ss.1-21, 2023 (SCI-Expanded)
- XXXVII. **On vibrational-based numerical simulation of a jet engine cowl shell-like structure**  
Sobhani E., Masoodi A. R., CİVALEK Ö.  
Mechanics of Advanced Materials and Structures, cilt.30, sa.19, ss.4016-4027, 2023 (SCI-Expanded)
- XXXVIII. **The influence of non-linear carbon nanotube reinforcement on the natural frequencies of composite beams**  
AVCAR M., Hadji L., CİVALEK Ö.  
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- XXXIX. **Viscoelasticity in Large Deformation Analysis of Hyperelastic Structures**  
Dastjerdi S., AKGÖZ B., CİVALEK Ö.  
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- XL. **Size dependent torsional vibration of a restrained single walled carbon nanotube (SWCNT) via nonlocal strain gradient approach**  
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- XLI. **Buckling Analysis of Functionally Graded Tapered Microbeams via Rayleigh–Ritz Method**  
AKGÖZ B., CİVALEK Ö.  
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- XLII. **Nonlinear analysis of fiber-reinforced folded shells enriched by nano-additives using a coupled FEM-IGA formulation**  
Amin Shahmohammadi M., Azhari M., Salehipour H., Fantuzzi N., Amabili M., CİVALEK Ö.  
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- XLIII. **Nonlocal strain gradient approach for axial vibration analysis of arbitrary restrained nanorod**  
UZUN B., CİVALEK Ö., YAYLI M. Ö.  
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- XLIV. **Wave propagation analysis of sandwich FGM nanoplate surrounded by viscoelastic foundation**  
Eyvazian A., Zhang C., CİVALEK Ö., Khan A., Sebaey T. A., Farouk N.  
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- XLV. **A Novel Nonlinear Elasticity Approach for Analysis of Nonlinear and Hyperelastic Structures**  
Dastjerdi S., Alibakhshi A., AKGÖZ B., CİVALEK Ö.  
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- XLVI. **Interaction of the lateral buckling strength with the axial load for FG micro-sized I-section beam-columns**  
Soltani M., Soltani A., CİVALEK Ö.  
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- XLVII. **Size-dependent dynamic stability of nanocomposite enriched micro-shell panels in thermal environment using the modified couple stress theory**  
Mirfatah S. M., Shahmohammadi M. A., Salehipour H., CİVALEK Ö.  
Engineering Analysis with Boundary Elements, cilt.143, ss.483-500, 2022 (SCI-Expanded)
- XLVIII. **Geometrically nonlinear electro-thermo-static analysis of piezoelectric/CNT/GPL/fibre/polymer sandwich panels with double curvature resting on elastic foundation**  
Emadi S., Badarloo B., Tayebikhorami S., Salehipour H., CİVALEK Ö.  
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- XLIX. **Hyperelastic Microcantilever AFM: Efficient Detection Mechanism Based on Principal Parametric Resonance**  
Alibakhshi A., Rahmadian S., Dastjerdi S., Malikan M., Karami B., AKGÖZ B., CİVALEK Ö.  
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- L. **Nonlinear forced vibration analysis of laminated composite doubly-curved shells enriched by nanocomposites incorporating foundation and thermal effects**  
Badarloo B., Tayebikhorami S., Mirfatah S. M., Salehipour H., CİVALEK Ö.  
Aerospace Science and Technology, cilt.127, 2022 (SCI-Expanded)
- LI. **Nonlocal thermoelastic vibration of a solid medium subjected to a pulsed heat flux via Caputo–Fabrizio fractional derivative heat conduction**  
Abouelregal A. E., AKGÖZ B., CİVALEK Ö.  
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- LII. **Novel size-dependent finite element formulation for modal analysis of cracked nanorods**  
Numanoğlu H. M., CİVALEK Ö.  
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- LIII. **Torsional and longitudinal vibration analysis of a porous nanorod with arbitrary boundaries**

CİVALEK Ö., UZUN B., YAYLI M. Ö.

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- LIV. **Parametric vibration of a dielectric elastomer microbeam resonator based on a hyperelastic cosserat continuum model**  
Alibakhshi A., Dastjerdi S., AKGÖZ B., CİVALEK Ö.  
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- LV. **Natural frequency analysis of FG-GOP/ polymer nanocomposite spheroid and ellipsoid doubly curved shells reinforced by transversely-isotropic carbon fibers**  
Sobhani E., Masoodi A. R., CİVALEK Ö., AVCAR M.  
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- LVI. **An eigenvalue solution for torsional vibrations of restrained porous nanorods using doublet mechanics theory**  
CİVALEK Ö., UZUN B., YAYLI M. Ö.  
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, cilt.44, sa.4, 2022 (SCI-Expanded)
- LVII. **Dynamic Analysis of Functionally Graded Porous Microbeams under Moving Load**  
Akbaş Ş. D., Dastjerdi S., AKGÖZ B., CİVALEK Ö.  
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- LVIII. **An effective analytical method for buckling solutions of a restrained FGM nonlocal beam**  
CİVALEK Ö., UZUN B., YAYLI M. Ö.  
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- LIX. **Thermo-elastic damped nonlinear dynamic response of the initially stressed hybrid GPL/CNT/fiber/polymer composite toroidal shells surrounded by elastic foundation**  
Mirfatah S. M., Tayebikhrami S., Shahmohammadi M. A., Salehipour H., CİVALEK Ö.  
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- LX. **Finite element formulation for nano-scaled beam elements**  
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- LXI. **Torsional vibrations of functionally graded restrained nanotubes**  
CİVALEK Ö., UZUN B., YAYLI M. Ö.  
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.137, sa.1, 2022 (SCI-Expanded)
- LXII. **Axial and torsional free vibrations of restrained single-walled boron nitride nanotube (SWBNNT) embedded in an elastic medium via nonlocal strain gradient theory**  
UZUN B., CİVALEK Ö., YAYLI M. Ö.  
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- LXIII. **Static deflection and free vibration analysis of functionally graded and porous cylindrical micro/nano shells based on the three-dimensional elasticity and modified couple stress theories**  
Salehipour H., Shahgholian-Ghahfarokhi D., Shahsavar A., CİVALEK Ö., Edalati M.  
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- LXIV. **A Fourier sine series solution of static and dynamic response of nano/micro micro-scaled FG rod under torsional effect**  
CİVALEK Ö., UZUN B., YAYLI M. Ö.  
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- LXV. **On the deformation and frequency analyses of SARS-CoV-2 at nanoscale**  
Dastjerdi S., Malikan M., AKGÖZ B., CİVALEK Ö., Wiczenbach T., Eremeyev V. A.  
International Journal of Engineering Science, cilt.170, 2022 (SCI-Expanded)
- LXVI. **Buckling and free vibrations of CNT-reinforced cross-ply laminated composite plates**  
Civalek O., Dastjerdi S., AKGÖZ B.  
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- LXVII. **A new heat conduction model for viscoelastic micro beams considering the magnetic field and thermal effects**

- Abouelregal A. E., ERSOY H., CİVALEK Ö.  
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- LXVIII. **Higher-order time-differential heat transfer model with three-phase lag including memory-dependent derivatives**  
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INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, cilt.128, 2021 (SCI-Expanded)
- LXIX. **Longitudinal vibration analysis of FG nanorod restrained with axial springs using doublet mechanics**  
CİVALEK Ö., UZUN B., YAYLI M. Ö.  
WAVES IN RANDOM AND COMPLEX MEDIA, 2021 (SCI-Expanded)
- LXX. **Derivation of nonlocal FEM formulation for thermo-elastic Timoshenko beams on elastic matrix**  
Numanoglu H. M., Ersoy H., Civalek O., Ferreira A. J. M.  
COMPOSITE STRUCTURES, cilt.273, 2021 (SCI-Expanded)
- LXXI. **On the mechanical analysis of microcrystalline cellulose sheets**  
DASTJERDI S., NAEIJIAN F., AKGÖZ B., Civalek O.  
INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE, cilt.166, 2021 (SCI-Expanded)
- LXXII. **An accurate numerical approach for studying perovskite solar cells**  
Ragb O., Mohamed M., Matbully M. S., CİVALEK Ö.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.45, sa.11, ss.16456-16477, 2021 (SCI-Expanded)
- LXXIII. **On the generalized model of shell structures with functional cross-sections**  
DASTJERDI S., MALIKAN M., EREMEYEV V. A., AKGÖZ B., CİVALEK Ö.  
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- LXXIV. **Solution of Moore-Gibson-Thompson Equation of an Unbounded Medium with a Cylindrical Hole**  
Abouelregal A. E., ERSOY H., CİVALEK Ö.  
MATHEMATICS, cilt.9, sa.13, 2021 (SCI-Expanded)
- LXXV. **Dynamic Analysis of a Fiber-Reinforced Composite Beam under a Moving Load by the Ritz Method**  
Albas S. D., ERSOY H., AKGÖZ B., CİVALEK Ö.  
MATHEMATICS, cilt.9, sa.9, 2021 (SCI-Expanded)
- LXXVI. **Forced Vibration Analysis of Composite Beams Reinforced by Carbon Nanotubes**  
Civalek O., Akbas S. D., AKGÖZ B., DASTJERDI S.  
NANOMATERIALS, cilt.11, sa.3, 2021 (SCI-Expanded)
- LXXVII. **Mechanical simulation of artificial gravity in torus-shaped and cylindrical spacecraft**  
DASTJERDI S., MALIKAN M., EREMEYEV V. A., AKGÖZ B., Civalek O.  
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- LXXVIII. **Vibration analysis of carbon nanotube-reinforced composite microbeams**  
Civalek O., Dastjerdi S., Akbas S. D., AKGÖZ B.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, 2021 (SCI-Expanded)
- LXXIX. **On the shell model for human eye in Glaucoma disease**  
DASTJERDI S., AKGÖZ B., Civalek O.  
INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE, cilt.158, 2021 (SCI-Expanded)
- LXXX. **On the non-linear dynamics of torus-shaped and cylindrical shell structures**  
Dastjerdi S., AKGÖZ B., Civalek O., MALIKAN M., EREMEYEV V. A.  
INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE, cilt.156, 2020 (SCI-Expanded)
- LXXXI. **Application of Chebyshev-Ritz method for static stability and vibration analysis of nonlocal microstructure-dependent nanostructures**  
EBRAHIMI F., BARATI M. R., CİVALEK Ö.  
ENGINEERING WITH COMPUTERS, cilt.36, sa.3, ss.953-964, 2020 (SCI-Expanded)
- LXXXII. **On the effect of viscoelasticity on behavior of gyroscopes**  
Dastjerdi S., AKGÖZ B., Civalek O.  
INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE, cilt.149, 2020 (SCI-Expanded)
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