# Assoc. Prof. NİLAY KÜÇÜKDOĞAN ÖZTÜRK

## Personal Information

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**International Researcher IDs**
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## Education

Doctorate, Izmir Katip Celebi University, Turkey 2014 - 2020
Postgraduate, Ege University, Turkey 2010 - 2013
Undergraduate, Ege University, Turkey 2006 - 2010

## Dissertations

Postgraduate, Yağların plastiklerin mekanik özelliklerine olan etkisi, Ege University, 2013

## Research Areas

**Avesis Research Areas:** Mechanical Engineering, Metallurgical and Materials Engineering
**WoS Research Areas:** Engineering Mechanical, Energy & Fuels, Engineering Computing & Technology (Eng), Mechanics
**Scopus Research Areas:** Automotive Engineering, General Energy

## Academic Positions

Assistant Professor, Manisa Celal Bayar University, Hasan Ferdi Turgutlu Teknoloji Fakültesi, Mekatronik Mühendisliği, 2021 - Present

## Academic and Administrative Experience

Deputy Head of Department, Manisa Celal Bayar University, Hasan Ferdi Turgutlu Teknoloji Fakültesi, Mekatronik Mühendisliği, 2024 - Present

## Courses

**Undergraduate**
Bilgisayar Destekli Tasarım, Undergraduate, 2020-2021
Dinamik, Undergraduate, 2020-2021

## Supervised Theses

KÜÇÜKDOĞAN ÖZTÜRK N., Fiber Lazer Kaynak Yöntemi ile Düşük Karbonlu Çelik Malzemelerin Kaynaklanabilirliğinin İncelenmesi, Postgraduate, H.TUĞRUL(Student), 2025
KÜÇÜKDOĞAN ÖZTÜRK N., Yük Kaldırma Taşıma Ataşmanlarında Hidrolik Silindir Tasarımı ve Basınç Altında Etki Eden Kuvvetlerin Analizi, Postgraduate, G.İLAYDA(Student), 2024

## Jury Memberships

Post Graduate, Post Graduate, Manisa Celal Bayar Üniversitesi, August, 2025

## Articles

I. **Sustainable geopolymers incorporating PCM-impregnated paper pulp sludge for energy-efficient building applications**
ÖZTÜRK S., SÜTÇÜ M., KÜÇÜKDOĞAN ÖZTÜRK N., Ustaoglu A., Gencel O., Yaprak H., Memis S., SARI A., HEKİMOĞLU G., Erdogmus E., et al.
STRUCTURAL CONCRETE, 2026 (SCI-Expanded, Scopus)

II. **A Meta-Optimization Framework Based on Hybrid Neuro-Regression for Quality-Oriented Laser Transmission Welding of PMMA–Metal Joints**
KÜÇÜKDOĞAN ÖZTÜRK N.
Applied Sciences (Switzerland), vol.16, no.3, 2026 (SCI-Expanded, Scopus)

III. **Development of lightweight high-alumina cement mortars integrated with n-octadecane/expanded vermiculite for improving building energy efficiency**
Öztürk S., Küçükdoğan Öztürk N., Gencel O., Sütçü M., Ustaoglu A., Sarı A., Hekimoğlu G., Erdogmus E.
Construction and Building Materials, vol.506, 2026 (SCI-Expanded, Scopus)

IV. **Sustainable brick production using waste foundry sand and cast-iron slag: Reductions in embodied energy, $CO_2$ emissions, and cost**
KÜÇÜKDOĞAN ÖZTÜRK N.
Construction and Building Materials, vol.497, 2025 (SCI-Expanded, Scopus)

V. **Phase change material incorporated paper pulp sludge/gypsum composite reinforced by slag and fly ash for energy efficient buildings: Solar thermal regulation, embody energy, sustainability index and cost analysis**
KÜÇÜKDOĞAN ÖZTÜRK N., SÜTÇÜ M., ÖZTÜRK S., Yaprak H., Memis S., Gencel O., Ustaoglu A., SARI A., HEKİMOĞLU G., Erdogmus E.
Energy and Buildings, vol.325, 2024 (SCI-Expanded, Scopus)

VI. **Synergistic effect of h-BN on thermal conductivity of polymer composites**
Küçükdoğan Öztürk N.
International Advanced Researches and Engineering Journal, vol.6, pp.161-166, 2022 (TRDizin)

VII. **Optimization of Delamination and Thrust Force in the Drilling Process of Nanocomposites**
KÜÇÜKDOĞAN ÖZTÜRK N.
Avrupa Bilim ve Teknoloji Dergisi, no.32, pp.807-815, 2021 (TRDizin)

VIII. **Optimum design of anti-buckling behavior of graphite/epoxy laminated composites by differential evolution and simulated annealing method**
Akçair M., Savran M., Aydın L., Ayakdaş O., ÖZTÜRK S., KÜÇÜKDOĞAN ÖZTÜRK N.
Research on Engineering Structures and Materials, vol.5, no.2, pp.175-188, 2019 (Scopus, TRDizin)

IX. **Optimal design of the type III hydrogen storage tank for different carbon/epoxy materials by modified differential evolution method**
Ayakdaş O., Aydın L., Savran M., KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S.

Research on Engineering Structures and Materials, vol.5, no.2, pp.189-201, 2019 (Scopus, TRDizin)

X. **Theoretical and empirical thermal conductivity models of red mud filled polymer composites**
KÜÇÜKDOĞAN ÖZTÜRK N., Aydin L., SÜTÇÜ M.
Thermochimica Acta, vol.665, pp.76-84, 2018 (SCI-Expanded, Scopus)

XI. **Optimization of lapping processes of silicon wafer for photovoltaic applications**
ÖZTÜRK S., Aydin L., Kucukdogan N., Celik E.
SOLAR ENERGY, vol.164, pp.1-11, 2018 (SCI-Expanded, Scopus)

XII. **Kağıt üretim atığı katkılı yüksek yoğunluklu polietilen (yype) kompozitlerin mekanik özelliklerinin incelenmesi**
KÜÇÜKDOĞAN ÖZTÜRK N., HALİS S., SÜTÇÜ M., SARIKANAT M., SEKİ Y., SEVER K.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.23, pp.949-953, 2017 (TRDizin)

XIII. **Investigation of mechanical properties of paper processing residue filled high density polyethylene (hdpe) composites**
Küçükdogan N., Halis S., SÜTÇÜ M., Sarikanat M., SEKİ Y., Sever K.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.23, no.8, pp.949-953, 2017 (TRDizin)

XIV. **Bio composites based on polypropylene filled with waste of camellia sinensis**
KUCUKDOGAN N., ÖZTÜRK S., SÜTÇÜ M.
ARCHIVES OF MATERIALS SCIENCE AND ENGINEERING, vol.79, no.1, pp.12-18, 2016 (Scopus)

XV. **Manufacturing and characterization of vine stem reinforced high density polyethylene composites**
Kilinc A. C., Atagur M., ÖZDEMİR O., Sen I., KÜÇÜKDOĞAN ÖZTÜRK N., Sever K., Seydibeyoglu O., Sarikanat M., SEKİ Y.
COMPOSITES PART B-ENGINEERING, vol.91, pp.267-274, 2016 (SCI-Expanded, Scopus)

## Books

I. **Weldability of Low Carbon Steels and Fiber Laser Welding Technology**
ORTA H. T., KÜÇÜKDOĞAN ÖZTÜRK N.
in: International Academic Research and Studies in Mechanical Engineering, ÖZALP COŞKUN, BARDAK SELAHATTİN, Editor, Serüven Yayınevi / Serüven Publishing, Ankara, pp.17-38, 2025

II. **Artificial Intelligence Methodologies In Mechanical Design Optimization: Theory, Applications, And An Interdisciplinary Perspective**
KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S.
in: International Reviews, Research and Studies in the Field of Mechanical Engineering, ÖZALP COŞKUN, Editor, Serüven Yayınevi / Serüven Publishing, Ankara, pp.57-76, 2025

III. **THE POTENTIAL OF PHASE CHANGE MATERIALS FOR EFFICIENT THERMAL MANAGEMENT SYSTEMS**
KÜÇÜKDOĞAN ÖZTÜRK N.
in: RECENT RESEARCHES ON ENGINEERING Research, Methodology and Innovation, DİLEKOĞLU MEHMET FATİH, KILIÇER ALİ, Editor, Livre de Lyon, pp.471-479, 2024

IV. **İMPLANT RESTORASYONLARINDA ZİRKONYANIN ESTETİK VE MEKANİK AVANTAJLARI**
KÜÇÜKDOĞAN ÖZTÜRK N.
in: MÜHENDİSLİK Alanında Uluslararası Araştırma ve Değerlendirmeler, ÖZALP COŞKUN, BARDAK SELAHATTİN, Editor, Serüven Yayınevi / Serüven Publishing, pp.105-118, 2024

V. **A RESEARCH ON MECHANICAL PROPERTIES AND HIGH TEMPERATURE RESISTANCE OF GEOPOLYMER CONCRETE**
KÜÇÜKDOĞAN ÖZTÜRK N.
in: Academic Research and Reviews in Engineering Sciences, KILIÇ BİROL, Editor, Platanus Publishing, pp.323-335, 2023

VI. **Polimerlerin Lazer İletim Kaynağı: Kaynak Parametreleri, Kaynak Kalitesi Ve Uygulamalar Üzerine Araştırma**

KÜÇÜKDOĞAN ÖZTÜRK N.
in: Mühendislik Bilimleri Alanında Yeni Trendler, KILIÇ Birol, BAŞYİĞİT KILIÇ Gülden, Editor, Duvar Yayınları, Ankara, pp.503-512, 2022

VII. **Optimization of Surface Roughness in Slicing Process of Silicon Ingots, Designing Engineering Structures using Stochastic Optimization Methods**
ÖZTÜRK S., KÜÇÜKDOĞAN ÖZTÜRK N., AYDIN L., SEYHAN A.
in: Designing Engineering Structures using Stochastic Optimization Methods, Aydin Levent , Artem H. Seçil , Oterkus Selda, Editor, CRC PRESS, New York, pp.98-108, 2021

VIII. **Design and Optimization of Permanent Magnet Synchronous Generators**
Nergiz E., AYDIN L., UYGUN D., KÜÇÜKDOĞAN ÖZTÜRK N.
in: Designing Engineering Structures using Stochastic Optimization Methods, Aydin Levent , Artem H. Seçil , Oterkus Selda, Editor, CRC PRESS, New York, pp.108-131, 2021

IX. **DOĞAL LİF/PARTİKÜL TAKVİYELİ EPOKSİ KOMPOZİTLERİN MEKANİK ÖZELLİKLERİNİN ARAŞTIRILMASI**
KÜÇÜKDOĞAN ÖZTÜRK N.
in: Mühendislik Alanında Akademik Çalışmalar, ÖZDEMİR Yavuz, Editor, Duvar Yayınları, Ankara, pp.221-230, 2021

X. **Thermal Degradation Behavior and Flame Retardancy of Organic and Inorganic Filled Polymer Composites**
KÜÇÜKDOĞAN ÖZTÜRK N., SÜTÇÜ M., ÖZTÜRK S., AYDIN L., KAYABAŞI E., SAYİ H.
in: The Most Recent Studies in Science and Art 2, Arapgirlioğlu Hasan, Atik Atilla, Hızıroğlu Salim, ELLIOTT ROBERT L., Atik Dilek, Editor, Gece Kitaplığı, pp.1854-1865, 2018

XI. **Recent Developments in Energy and Solar Energy**
KAYABAŞI E., KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S., SAVRAN M.
in: The Most Recent Studies in Science and Art 2, Arapgirlioğlu Hasan, Atik Atilla, Hızıroğlu Salim, ELLIOTT ROBERT L., Atik Dilek, Editor, Gece Kitaplığı, pp.1883-1893, 2018

XII. **Progress in Applications of Black Silicon**
ÖZTÜRK S., KAYABAŞI E., KÜÇÜKDOĞAN ÖZTÜRK N., Ayakdaş O.
in: The Most Recent Studies in Science and Art 2, Arapgirlioğlu Hasan, Atik Atilla, Hızıroğlu Salim, ELLIOTT ROBERT L., Atik Dilek, Editor, Gece Kitaplığı, pp.1866-1882, 2018

XIII. **Thermal Conductivity of Hetero-Phase Polymer Composites**
KÜÇÜKDOĞAN ÖZTÜRK N., AYDIN L., ÖZTÜRK S., SÜTÇÜ M.
in: The Most Recent Studies in Science and Art, Arapgirlioğlu Hasan, Atik Atilla, Hızıroğlu Salim, ELLIOTT ROBERT L., Atik Dilek, Editor, Gece Kitaplığı, pp.1836-1844, 2018

## Papers Presented at Peer-Reviewed Scientific Conferences

I. **SIMULATION-BASED STUDY ON THERMOMECHANICAL RESPONSE OF DP600 STEEL UNDER LASER WELDING CONDITIONS**
Küçükdoğan Öztürk N., Orta H. T.
6.Palestra Congress, Skopje, Macedonia, 27 - 30 July 2025, vol.1, pp.213-223, (Full Text)

II. **"A CASE STUDY ON THE USE OF STOCHASTIC OPTIMIZATION ALGORITHMS IN THERMAL SPRAY COATING APPLICATIONS**
KÜÇÜKDOĞAN ÖZTÜRK N.
INTERNATIONAL THALES CONGRESS ON LIFE, ENGINEERING, ARCHITECTURE AND MATHEMATICS, 18 October 2024, (Full Text)

III. **Crashworthiness Optimization for Bumper System by Using Stochastic Methods and Neuro Regression Analysis**
Kaplan H., SAVRAN M., KÜÇÜKDOĞAN ÖZTÜRK N.
3rd International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 20 July 2022, pp.327, (Summary Text)

IV. **Modeling the Thermal Conductivity of Graphene Nanoplatelet Filled Polymer Composites**
KÜÇÜKDOĞAN ÖZTÜRK N.
INTERNATIONAL AZERBAIJAN ACADEMIC RESEARCH CONGRESS, Azerbaijan, 28 May 2022, (Full Text)

V. **A Comparative Study on Crashworthiness Optimization of Vehicle by Using Stochastic Methods**
Gezer E. B., AYDIN L., SAVRAN M., Ayakdaş O., KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S.
Hezarfen International Congress of Science, Mathematics and Engineering, İzmir, Turkey, 8 - 10 November 2019, (Full Text)

VI. **Optimization of Process Parameters in Deposition of Stainless Steel On Low Carbon Steel by Friction Surfaced Deposit**
KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S., Ayakdaş O., SAVRAN M., AYDIN L.
Hezarfen International Congress of Science, Mathematics and Engineering, İzmir, Turkey, 8 - 10 November 2019, (Full Text)

VII. **Optimization of Electrospinning Parameters in The Production of PCL Scaffold**
KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S., SAVRAN M., Ayakdaş O., AYDIN L.
Hezarfen International Congress of Science, Mathematics and Engineering, İzmir, Turkey, 8 - 10 November 2019, (Full Text)

VIII. **Modelling of Thermal Conductivity of Graphite/Polystyrene Composites**
KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S., AYDIN L.
1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 March 2018, (Summary Text)

IX. **Determination of Nano Etching Parameters to Improve Optical Properties of Silicon Solar Cell**
KAYABAŞI E., ÖZTÜRK S., KÜÇÜKDOĞAN ÖZTÜRK N.
The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, İzmir, Turkey, 06 October 2018, (Full Text)

X. **Optimum Design of Anti-Buckling Behaviour of Graphite/Epoxy Laminated Composite Plate Using Differential Evolution Method**
Akçair M., SAVRAN M., AYDIN L., Ayakdaş O., ÖZTÜRK S., KÜÇÜKDOĞAN ÖZTÜRK N.
1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 March 2018, (Summary Text)

XI. **Design and Analysis of Interply Hybrid Laminated Composite for Maximum Natural Frequency and Minumum Cost Using Random Search Algorithm and Finite Element Method**
SAVRAN M., AYDIN L., Ayakdaş O., KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S.
4th International Symposium on Composite Materials, İzmir, Turkey, 06 September 2018, (Summary Text)

XII. **Theoretical Modeling of Thermal Conductivity of Alumina/Silicone Rubber Composites**
KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S., AYDIN L., Ayakdaş O., SAVRAN M.
4th International Symposium on Composite Materials, İzmir, Turkey, 6 - 08 September 2018, (Summary Text)

XIII. **Grafit/Epoksi Kompozitin Burkulma Karşıtı Davranışının Stokastik Yöntemler Kullanarak Optimize Edilmesi**
Ayvalık A., AYDIN L., KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S.
1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 March 2018, (Summary Text)

XIV. **Optimum Design of Glass/Epoxy and Flax/Epoxy Laminated Composite Plates for Maximum Frequency Using a Stochastic Optimization Method**
SAVRAN M., AYDIN L., Ayakdaş O., ÖZTÜRK S., KÜÇÜKDOĞAN ÖZTÜRK N.
1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 March 2018, (Summary Text)

XV. **Design and Analysis of Flat Foam Core Sandwich Panels for Maximum Fundamental Frequency**
SAVRAN M., AYDIN L., Ayakdaş O., KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S.
4th International Symposium on Composite Materials, İzmir, Turkey, 06 October 2018, (Summary Text)

XVI. **Stacking Sequences Design of the Cylindrical Composite Pressure Vessel for Different Carbon/ Epoxy Materials by Using Stochastic Optimization Methods**

SAVRAN M., AYDIN L., Ayakdaş O., KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S.
4th International Symposium on Composite Materials, İzmir, Turkey, 06 October 2018, (Summary Text)

XVII. **Kağıt Üretim Atığı Katkılı Yüksek Yoğunluklu Polietilen (YYPE) Kompozitlerin Mekanik Özelliklerinin İncelenmesi**
KÜÇÜKDOĞAN ÖZTÜRK N., HALİS S., SÜTÇÜ M., SARIKANAT M., SEKİ Y., SEVER K.
16. International Metarials Symposium, Denizli, Turkey, 12 October 2016, (Full Text)

XVIII. **Investigation of Thermal Decomposition Kinetics of Ulexite/Polypropylene Composites: Activation Energies with Thermogravimetric Analysis**
KÜÇÜKDOĞAN ÖZTÜRK N., AYDIN L., SÜTÇÜ M.
5. International Polimeric Composites, İzmir, Turkey, 03 November 2017, (Full Text)

XIX. **Çam Fıstığı Kabuklarının Tuğla Üretiminde Gözenek Yapıcı Olarak Kullanılabilirliğinin İncelenmesi**
ÖZTÜRK S., KÜÇÜKDOĞAN ÖZTÜRK N., SÜTÇÜ M.
16. International Materials Symposium, Denizli, Turkey, 12 October 2016, (Full Text)

XX. **Bio-Composites Based on Polypropylene Filled with Waste of Camellia Sinensis**
KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S., SÜTÇÜ M.
16. International Materials Symposium, Denizli, Turkey, 12 October 2016, (Full Text)

XXI. **Kolemanit/Polipropilen Kompozitlerin Termal Dekompozisyon Kinetiğinin İncelenmesi Termogravimetrik Analiz ile Aktivasyon Enerjisinin Hesaplanması**
KÜÇÜKDOĞAN ÖZTÜRK N., AYDIN L., SÜTÇÜ M.
5. International Polimeric Composites, İzmir, Turkey, 03 November 2017, (Full Text)

XXII. **Evaluation of Vine Stem Waste as a Filler Material for High Density Polyethylene**
SEKİ Y., KILINÇ A. Ç., ATAGÜR M., ÖZDEMİR O., ŞEN İ., SEVER K., SARIKANAT M., KÜÇÜKDOĞAN ÖZTÜRK N.
17th International Conference on Composite Materials, Copenhagen, Denmark, 14 October 2015, (Summary Text)

XXIII. **Pirina Atığı Katkılı Termoplastik Kompozitlerin Termo-Kinetik Mikser İle Üretimi**
KÜÇÜKDOĞAN ÖZTÜRK N., SEVER K., SEYDİBEYOĞLU M. Ö., SÜTÇÜ M., SARIKANAT M., SEKİ Y.
XIX. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 August 0215, (Full Text)

XXIV. **Fındıkkabuğu ve Evsel Çay Atığı Katkılı Yüksek Yoğunluklu Polietilen Kompozitlerin Fiziksel ve Mekanikse Özelliklerinin Belirlenmesi**
KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S., SÜTÇÜ M., SEVER K.
XIX. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 August 2015, (Full Text)

XXV. **Değişik Geometrilere Sahip Delikli Plakalarda Burkulma Davranışının Nümerik Metodla Belirlenmesi**
KÜÇÜKDOĞAN ÖZTÜRK N., PEKBEY Y.
I. Ulusal Ege Kompozit Malzemeler Sempozyumu, Aydın, Turkey, 10 October 2011, (Summary Text)

XXVI. **Design and Optimization of the Type III Pressure Vessel for Different Carbon/Epoxy Materials by using Differential Evolution Method**
Ayakdaş O., AYDIN L., SAVRAN M., KÜÇÜKDOĞAN ÖZTÜRK N., ÖZTÜRK S.
1st International Symposium on Light Alloys and Composite Materials, Karabük, Turkey, 22 March 2018, (Summary Text)

## Funded Projects

KÜÇÜKDOĞAN ÖZTÜRK N., ORTA H. T., Project Supported by Higher Education Institutions, BAP MSc, Fiber Lazer Kaynak Yöntemi İle Düşük Karbonlu Çelik Malzemelerin Kaynaklanabilirliğinin İncelenmesi, 2026 - Present

ÖZTÜRK S., KÜÇÜKDOĞAN ÖZTÜRK N., GENÇEL ., Project Supported by Higher Education Institutions, BAP Research Project, Genişletilmiş Vermikülit İle Faz Değiştiren Malzeme İçeren Çimento Tabanlı Kompozitlerin Üretilmesi:Isı Depolama Özelliklerinin Optimizasyonu, 2022 - 2024

Sütçü M., Küçükdoğan Öztürk N., Sever K., Project Supported by Higher Education Institutions, BAP PhD, İKÇÜ-BAP 2017-TDR-FEBE-0037: "Endüstriyel proses atık katkılı polimer kompozitlerin alev geciktirme ve mekanik özelliklerinin incelenmesi, 2017 - 2020

Sever K., TUBITAK Project, 3001 - Initial R&D Projects Support Program, Üzüm Bağ Çubuğu Ve Prina Atıkları İle Katkılı

Polimer Esaslı Kompozitlerin Üretimi ve Özelliklerinin Geliştirilmesi, 2015 - 2017

## Metrics

Publication: 54
Citation (WoS): 110
Citation (Scopus): 185
H-Index (WoS): 4
H-Index (Scopus): 7