

# YÜKSEL PALACI

## PROF.

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABA-2408-2020

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### Biography

He graduated from the Metallurgical Engineering Department of the Middle East Technical University in 1990. He got his master's degree in 1994 and his Ph.D. in 2001 from Istanbul Technical University. He started professional work as a researcher in TUBITAK Marmara Research Center (MAM) Materials Department. He worked as deputy manager at Material Research Institute in his 13 years of MAM working life. From 2016-to 2017, He has been a consultant for laser-material interaction for 1 year in Electro-optics Laboratory TÜBİTAK-BİLGEM UEKAE. He was a member of the TÜBİTAK TEYDEB METATEG Board for 3 years.

He conducted his research at different universities( Gent University in Belgium, TNO-CTK research center in Eindhoven University in the Netherlands, Iowa State University, PENN STATE University PM / LAB9.

He worked as Assistant Prof. in the Mechanical Engineer department, Niğde Ömer Halis Demir University between 2010 and 2013. He has been working as a professor in the Department of Shipbuilding and Ship Mechanics at Yıldız Technical University Since the beginning of the year 2015.

He produced many commercial ceramic products for the defense industry, universities, and many national and international companies His work has recently been concentrated on additive manufacturing technologies and technical ceramics.

### Education

Doctorate 1994 - 2001	Istanbul Technical University, Kimya-Metalurji Fak/Fen Bilimleri Ens., Metalurji Müh. Malzeme Anabilim Dalı, Turkey
Postgraduate 1990 - 1994	Istanbul Technical University, Kimya-Metalurji Müh. Fak/Fen Bilimleri Enstitüsü, Metalurji Mühendisliği, Turkey
Undergraduate 1985 - 1990	Middle East Technical University, Mühendislik Bilimleri Fak., Metalurji Mühendisliği Ve Malzeme Bilimi, Turkey

### Foreign Languages

English, B2 Upper Intermediate

German, A1 Beginner

## Certificates, Courses and Trainings

Education Management and Planning, Modern Yönetim Teknikleri, Marmara Üniversitesi Vakfı, 1994

## Dissertations

Doctorate, Alüminanın özelliklerine, şekillendirme yönteminin, katkıların ve sinterleme sıcaklığının etkisi, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2001

Postgraduate, Kapileri emme mekanizması ile enjeksiyonda kalıplanmış parçadan bağlayıcının alınması, Istanbul Technical University, Fen Bilimleri Enstitüsü, 1994

## Academic Titles / Tasks

Professor 2022 - Continues	Yıldız Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering
Associate Professor 2015 - 2022	Yıldız Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering
Assistant Professor 2010 - 2013	Nigde Omer Halisdemir University, Faculty Of Engineering, Makina

## Supported Projects

- ÜST Y., BAŞAK M. E., BAŞHAN V., PALACI Y., KARAKURT A. S., ARSLAN F., Project Supported by Higher Education Institutions, Karbondioksitin perovskit katalist kullanılan sCO<sub>2</sub> güç çevrimlerinde metan yanmasına etkilerinin incelenmesi, 2018 - 2021
- PALACI Y., BAYAR H., GONCA G., DEMİR Ö., AKALIN Ö., Project Supported by Higher Education Institutions, Bor katkısı ile düşük ısı iletkenlik sağlayan izolasyon malzemesi geliştirilmesi, 2020 - 2020
- Palacı Y., TÜBİTAK International Bilateral Joint Cooperation Program Project, Biyo-uygulamalar için seramik kompozit malzemelerin geliştirilmesi, 2014 - 2019
- PALACI Y., TUBITAK Project, Yerli Seramik Kartuş Geliştirilmesi, 2016 - 2017
- Palacı Y., Project Supported by Other Private Institutions, Yerli REGOVA petekleri geliştirilmesi, 2012 - 2013
- Alınak M. O., Okutan M., Yalçın Ş., Palacı Y., Güngör A., Ata A., Industrial Thesis Project, Yüksek Basınca Dayanıklı İleri Teknoloji Kompozit Hidrojen Tüpü İmalatı, 2007 - 2009
- PALACI Y., EU Framework Program Project, Paslanmaz Çelik Toz Metalurjisi, 2001 - 2002

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

- Synthesis and cytotoxicity analysis of porous beta-TCP/starch bioceramics**  
Turan Y., Kalkandelen C., Palacı Y., Şahin A., Gökçe H., Gündüz O., Ben-Nissan B.  
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.58, no.2, pp.487-494, 2022 (SCI-Expanded)

2. **Development of boric acid added pumice based insulation material**  
Palacı Y.  
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.37, no.1, pp.399-405, 2022 (SCI-Expanded)
3. **Layer thickness optimization of ceramic composite for body armor by considering volume, weight, and cost**  
PALACI Y., Arikan M. M.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.235, no.23, pp.7152-7160, 2021 (SCI-Expanded)
4. **A comparative study of hardness/scratch/wear properties of TiCN and TiAlN coatings on DIN 1.2842 steel by CA-PVD method**  
ŞİMŞİR M., PALACI Y., ÖZER A.  
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.57, pp.1027-1037, 2021 (SCI-Expanded)
5. **Design and fabrication of electrospun polycaprolactone/chitosan scaffolds for ligament regeneration**  
Saatcioglu E., Ulag S., ŞAHİN A., Yılmaz B. K., EKREN N., İNAN A. T., PALACI Y., ÜSTÜNDAĞ C. B., GÜNDÜZ O.  
European Polymer Journal, vol.148, 2021 (SCI-Expanded)
6. **INFLUENCES OF HEAT TREATMENT ON MECHANICAL BEHAVIOR AND MICROSTRUCTURE OF THE EXPLOSIVELY WELDED D GRADE STEEL / EN AW 5083 ALUMINIUM JOINT**  
PALACI Y., Olgun M.  
ARCHIVES OF METALLURGY AND MATERIALS, vol.66, no.2, pp.373-380, 2021 (SCI-Expanded)
7. **Economical and technical comparison of valve ceramics available in Turkish market**  
PALACI Y.  
International Journal of Applied Ceramic Technology, vol.17, no.4, pp.1959-1965, 2020 (SCI-Expanded)
8. **Effects of boric acid addition and sintering temperature on the thermal conductivity of perlite-based insulation materials**  
PALACI Y.  
MATERIALS TESTING, vol.62, no.4, pp.408-412, 2020 (SCI-Expanded)
9. **THE EFFECTS OF DIFFERENT ENGINE MATERIAL PROPERTIES ON THE PERFORMANCE OF A DIESEL ENGINE AT MAXIMUM COMBUSTION TEMPERATURES**  
PALACI Y., GONCA G.  
THERMAL SCIENCE, vol.24, no.1, pp.183-191, 2020 (SCI-Expanded)
10. **Glass fiber reinforced sealants for solid oxide fuel cells**  
Timurkutluk B., Altan T., Celik S., Timurkutluk C., PALACI Y.  
International Journal of Hydrogen Energy, vol.44, no.33, pp.18308-18318, 2019 (SCI-Expanded)
11. **Performance investigation into a diesel engine under effective efficiency-power-power density conditions**  
GONCA G., PALACI Y.  
SCIENTIA IRANICA, vol.26, no.2, pp.843-855, 2019 (SCI-Expanded)
12. **Design and fabrication of stair-step-type electrolyte structure for solid oxide fuel cells**  
Palacı Y., TIMURKUTLUK B.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.37, no.6, pp.631-637, 2013 (SCI-Expanded)
13. **High-field grain boundary transport in semiconducting BaTiO<sub>3</sub> ceramics**  
CHAO C., CANN D., GALL R., Palacı Y.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.37, no.3, pp.416-421, 2004 (SCI-Expanded)
14. **The effect of oxide addition on the wear performance of the alumina based nozzles**  
Palacı Y., CIMENOGLU H., KAYALI E.  
EURO CERAMICS VIII, PTS 1-3, pp.805-808, 2004 (SCI-Expanded)
15. **A NEW CERAMIC THREAD-GUIDE COMPOSITION VIA LOW-PRESSURE INJECTION-MOLDING**  
TOY C., PALACI Y., BAYKARA T.  
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.51, pp.211-222, 1995 (SCI-Expanded)

## Articles Published in Other Journals

1. **Peltier'in ısı akış sensörü olarak kullanıldığı ısıl iletkenlik ölçüm metodu**  
Korkmaz A., Bayar H., Palacı Y.  
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.11, no.1, pp.1-6, 2022 (Peer-Reviewed Journal)
2. **BORİK ASİT KATKISI VE SİNERLEME SICAKLIĞININ ALÜMİNA VE SEPİYOLİTİN ISIL İLETKENLİĞE ETKİSİNİN İNCELENMESİ**  
Palacı Y.  
Niğde Üniversitesi Mühendislik Bilimleri Dergisi, vol.9, no.1, pp.488-4930, 2020 (Peer-Reviewed Journal)

## Papers Published in Refereed Scientific Meetings

1. **Ceramic prototype manufacturing methods**  
PALACI Y.  
IV. Uluslararası Seramik, Cam, Emaye, Sır ve Boya Kongresi (SERES'xx18), 10 - 12 October 2018
2. **Performance Characteristics of a Diesel Engine Manufactured of Different Engine Materials**  
GONCA G., PALACI Y.  
INTNAM 2018, 24 - 25 April 2018
3. **HIZLI PROTOTİP METAL VE SERAMİK ÜRETİMİ ARAŞTIRMA ÖNERİSİ**  
ALNIAK M. O., PALACI Y.  
İleri Teknolojiler V. Çalıştayı, Turkey, 23 October 2017, pp.1-4
4. **ÇELİK-ALÜMİNYUM İNTİKAL EKLEMLERİ**  
OLGUN M., PALACI Y.  
İleri Teknolojiler V. Çalıştayı, Turkey, 23 October 2017, pp.1-16
5. **New Materials for High Pressurized Hydrogen Storage**  
ALNIAK M. O., PALACI Y., GÜNEŞ İ.  
II. International Hydrogen Energy Congress Exhibition, 13 July 2006 - 15 July 2007

## Episodes in the Encyclopedia

1. **Mekatronik Temel Bilgileri(5M2E Manufuture)**  
ALNIAK M. O., PALACI Y., KILIÇER M., TÜRKÖĞLU İ., DURKAL D.  
NETCOPY, pp., 2017

## Courses

### Postgraduate

Gemicilik Endüstrisinde Malzeme Teknolojisi, Postgraduate, 2017 - 2018

### Undergraduate

Manufacturing Processes, Undergraduate, 2021 - 2022

## Patent

Gonca G., Palacı Y., Bir Traksiyon Cihazı, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2017 19953 , Standard Registration, 2021

## Memberships / Tasks in Scientific Organizations

TEYDEB METATEG Kurulu, Member, 2018 - 2019

## Scientific Consultations

TÜBİTAK BİLGEM, Project Consultancy, Yıldız Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering, Turkey, 2023 - Continues

Agena Bilişim ve Savunma Teknolojileri San. Tic. Ltd Şri, Scientific Consultancy, Yıldız Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering, Turkey, 2018 - 2018

## Metrics

Publication: 23

Citation (WoS): 41

Citation (Scopus): 80

H-Index (WoS): 4

H-Index (Scopus): 6

## Congress and Symposium Activities

IV. Uluslararası Seramik, Cam, Emaye, Sır ve Boya Kongresi (SERES'18), Invited Speaker, Eskişehir, Turkey, 2018

IV. Uluslararası Seramik, Cam, Emaye, Sır ve Boya Kongresi (SERES'18), Attendee, Eskişehir, Turkey, 2018

INT-NAM 2018 3rd International Symposium on Naval Architecture and Maritime, Attendee, İstanbul, Turkey, 2018

İleri Teknolojiler V. Çalıştayı (İTÇ-2017), Attendee, Turkey, 2017

## Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Ceramic Materials, Engineering and Technology

## Non Academic Experience

Agena Bilişim ve Savunma Teknolojileri San. Tic. Ltd Şri, Danışmanlık

3P Teknoloji Geliştirme ve Danışmanlık SAN. ve Tic. Ltd.Şti., Araştırmacı

TÜBİTAK BİLGEM UEKAE, Danışman

TÜBİTAK TEYDEB, METATEG Kurul Üyesi

Teknoser Teknik seramik ve Komp. Ltd.Şti., Araştırmacı/Yönetici

DİTAŞ Doğan Yedek Parça San ve Tic. A.Ş., Danışman

TÜBİTAK, Enstitü Md.Yrd.

Teknoser Teknik Seramik ve Komp.Ltd.Şti., Müdür

Elimsan Şalt Cihazları A.Ş, Danışman

Teknik Döküm San. veTic.Ltd.Şti., Proje Yürütücüsü

TÜBİTAK Malzeme Enstitüsü, Araştırmacı

IOWA State University, Visiting Scientist

PENNSSTATE University, Visiting Scientist

TNO TCK Research Center Endhoven Netherland, Visiting Scientist