

PhD. MUSTAFA KÜÇÜKTÜVEK

ASSOCIATE PROFESSOR



E-Mail : mustafa.kucuktuvek@antalya.edu.tr

Telephone : -

Antalya Bilim Üniversitesi, Güzel Sanatlar ve Mimarlık Fakültesi,
İç Mimarlık ve Çevre Tasarımı Bölümü, Döşemealtı, Antalya

Education

PhD 2011 9/July/2015	GAZİ ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ/ENDÜSTRİYEL TEKNOLOJİ EĞİTİMİ (DR) Tez adı: Alkaloid fabrikası katı atıklarından kompozit levha üretim imkanlarının araştırılması (2015) Tez Danışmanı:(HAKAN KESKİN)
Master Degree 2000 6/Feb/2002	GAZİ ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ/ENDÜSTRİYEL TEKNOLOJİ EĞİTİMİ (YL) (TEZLİ) Tez adı: Lamine pencere profilinin teknolojik özelliklerinin belirlenmesi (2002) Tez Danışmanı:(Ahmet ŞENEL)
Bachelor Degree 1994 6/July/1998	GAZİ ÜNİVERSİTESİ ENDÜSTRİYEL SANATLAR EĞİTİM FAKÜLTESİ/ENDÜSTRİYEL TEKNOLOJİ EĞİTİMİ BÖLÜMÜ/ENDÜSTRİYEL TEKNOLOJİ ÖĞRETMENLİĞİ PR.

DUTIES

ASSOCIATE PROFESSOR DR. 2020	ANTALYA BILIM UNIVERSITY/ FINE ARTS AND ARCHITECTURE FACULTY/INTERIOR ARCHITECTURE AND ENVIRONMENTAL DESIGN DEPARTMENT
ASSISTANT. PROF. DR. 2017-2020	ANTALYA BILIM UNIVERSITY/ FINE ARTS AND ARCHITECTURE FACULTY/INTERIOR ARCHITECTURE AND ENVIRONMENTAL DESIGN DEPARTMENT

PROJECTS AND POSITIONS:

1. Electricity Attracts Life, Avrupa Birliği, Yürütücü:KÜÇÜKTÜVEK MUSTAFA, , 01/09/2008 - 31/08/2010 (ULUSLARARASI)
2. Increasing the Qualification and Standards of European Vocational Education through the Skill Competitions, Avrupa Birliği, Uzman:KÜÇÜKTÜVEK MUSTAFA, 01/09/2009 - 31/08/2010 (ULUSLARARASI)
3. New Approaches to Strengthened Cooperation Facilities For VET Institutions and Labour Market – NecVET, Avrupa Birliği, Uzman: KÜÇÜKTÜVEK MUSTAFA, 01/11/2014 - 01/11/2016 (ULUSLARARASI)
4. Sharing Cultural Enrichment through the Arts, Avrupa Birliği, Proje Koordinatörü:KÜÇÜKTÜVEK MUSTAFA. . 01/09/2006 - 31/08/2008 (ULUSLARARASI)
5. Co-Working Project, Avrupa Birliği, Yürütücü:KÜÇÜKTÜVEK MUSTAFA, , 01/09/2011 - 31/08/2013 (ULUSLARARASI)

6. Development of Teaching Skills of the Teachers Who Train Visually Impaired Students, Avrupa Birliđi, Yürütücü:KÜÇÜKTÜVEK MUSTAFA. , 01/07/2015 - 31/12/2016 (ULUSLARARASI)
7. Open the Door for Your Future through the Language Learning, Avrupa Birliđi, Uzman:KÜÇÜKTÜVEK MUSTAFA. , 01/09/2012 - 31/08/2014 (ULUSLARARASI)
8. Employability for disabled people without barriers, Avrupa Birliđi, Yürütücü:KÜÇÜKTÜVEK MUSTAFA, , 01/09/2013 - 31/08/2015 (ULUSLARARASI)

ADMINISTRATIVE DUTIES

Senator 2018	ANTALYA BİLİM ÜNİVERSİTESİ/REKTÖRLÜK
Faculty Board Membership 2018	ANTALYA BİLİM ÜNİVERSİTESİ/GÜZEL SANATLAR VE MİMARLIK FAKÜLTESİ
Faculty Management Board Membership 2018	ANTALYA BİLİM ÜNİVERSİTESİ/GÜZEL SANATLAR VE MİMARLIK FAKÜLTESİ
Deputy Dean 2018-2020	ANTALYA BİLİM ÜNİVERSİTESİ/GÜZEL SANATLAR VE MİMARLIK FAKÜLTESİ

Courses *

	Language	Course Ours
2019-2020		
Bachelor		
Furniture Design	English	3
Material and Construction Technologies in Interior Space II	English	4
Industrial Product Design	English	3
Urban Accessory Design	English	3
2018-2019		
Bachelor		
Technical Drawing I	English	4
Kitchen and Bathroom Design	English	3
Entrepreneurship and Marketing	English	1
Material and Construction Technologies in Interior Space II	English	4
Material and Construction Techniques for Furniture Design	English	4
Technical Drawing II	English	4
Furniture Design	English	3
Material and Construction Technologies in Interior Space I	English	4
2017-2018		
Bachelor		
Construction Materials Technologies I	English	3
Introduction to Materials and Construction	English	4
Graphic Communication I	English	4
Design Studio I	English	8
Construction Materials Technologies II	English	3

Patents

1. **Composite Panel Produced from Poppy Capsule (2017)**, Patent No: TR 2014 16166 B Patent Applicants: Mustafa KÜÇÜKTÜVEK, Patent Inventors: Asst. Assoc. Dr. Mustafa KÜÇÜKTÜVEK, Prof. Dr. Hakan KESKİN

Publications

Articles published in international refereed journals:

1. ALTAY ÇAĞLAR, BAYSAL ERGÜN, TOKER HİLMİ, TÜRKÖĞLU TÜRKAY, KÜÇÜKTÜVEK MUSTAFA, GÜNDÜZ AHMET, PEKER HÜSEYİN (2020). Effects of natural weathering on surface characteristics of Scots pine impregnated with Wolmanit CX-8 and varnished. *Wood Research*, 65(1), 87-100. (Yayın No: 6078842)
2. GÜNDÜZ AHMET, BAYSAL ERGÜN, TÜRKÖĞLU TÜRKAY, ALTAY ÇAĞLAR, KÜÇÜKTÜVEK MUSTAFA, TOKER HİLMİ, PEKER HÜSEYİN (2020). ACCELERATED WEATHERING PERFORMANCE OF SCOTS PINE PRE-IMPREGNATED WITH COPPER BASED CHEMICALS BEFORE VARNISH COATING. *COLORATION TECHNOLOGY*, Doi: 10.1111/cote.12435 (Yayın No: 5252127)
3. GÜNDÜZ AHMET, BAYSAL ERGÜN, TÜRKÖĞLU TÜRKAY, KÜÇÜKTÜVEK MUSTAFA, ALTAY ÇAĞLAR, PEKER HÜSEYİN, TOKER HİLMİ (2019). ACCELERATED WEATHERING PERFORMANCE OF SCOTS PINE PREIMPREGNATED WITH COPPER BASED CHEMICALS BEFORE VARNISH COATING PART II: COATED WITH WATER BASED VARNISH. *Wood Research*, 64(6), 987-998. (Yayın No: 5538630)
4. KART ŞABAN, BAYSAL ERGÜN, KÜÇÜKTÜVEK MUSTAFA, TÜRKÖĞLU TÜRKAY, TOKER HİLMİ, ALTAY ÇAĞLAR, CİBO CİHAN, PEKER HÜSEYİN (2019). SOME SURFACE CHARACTERISTICS OF VARNISHED THERMOWOOD AFTER WEATHERING. *Wood Research*, 64(1), 35-48. (Yayın No: 4879570)
5. Kart Şaban, BAYSAL ERGÜN, TÜRKÖĞLU TÜRKAY, KÜÇÜKTÜVEK MUSTAFA, PEKER HÜSEYİN, ALTAY ÇAĞLAR, GÜNDÜZ AHMET, TOKER HİLMİ (2018). THE EFFECT OF NATURAL WEATHERING ON CHANGE IN THE COLOR OF HEAT TREATED AND VARNISHED SCOTS PINE AND ORIENTAL BEECH WOODS. *WOOD RESEARCH*, 63(5), 771-782. (Yayın No: 4941152)
6. TÜRKÖĞLU TÜRKAY, KABASAKAL YAHYA, BAYSAL ERGÜN, GÜNDÜZ AHMET, KÜÇÜKTÜVEK MUSTAFA, BAYRAKTAR DURSUN KEMAL, TOKER HİLMİ, PEKER HÜSEYİN (2017). SURFACE CHARACTERISTICS OF HEATED AND VARNISHED ORIENTAL BEECH AFTER ACCELERATED WEATHERING. *WOOD RESEARCH*, 62(6), 961-972. (Yayın No: 3734581)
7. KÜÇÜKTÜVEK MUSTAFA, BAYSAL ERGÜN, TÜRKÖĞLU TÜRKAY, PEKER HÜSEYİN, GÜNDÜZ AHMET, TOKER HİLMİ (2017). SURFACE CHARACTERISTICS OF SCOTS PINE WOOD HEATED AT HIGH TEMPERATURES AFTER WEATHERING. *WOOD RESEARCH*, 62(6), 905-918. (Yayın No: 3638098)
8. BAYSAL ERGÜN, TÜRKÖĞLU TÜRKAY, GAVCAR ERDOĞAN, TOKER HİLMİ, GÜNDÜZ AHMET, KÜÇÜKTÜVEK MUSTAFA, PEKER HÜSEYİN, BAYRAKTAR DURSUN KEMAL (2017). WEATHERING PROPERTIES OF SCOTS PINE TREATED WITH SOME CHEMICALS. *WOOD RESEARCH*, 62(5), 737-750. (Yayın No: 3638098)
9. KÜÇÜKTÜVEK MUSTAFA (2017). THE EFFECT OF PRESS TEMPERATURE ON SOME MECHANICAL PROPERTIES OF WOOD BASED COMPOSITE PANELS. *INNOVATION IN WOODWORKING INDUSTRY AND ENGINEERING DESIGN*, 12(2), 57-62. (Yayın No: 5412284)
10. ALTINOK MUSTAFA, KÜÇÜKTÜVEK MUSTAFA, BİRCAN MEVLÜT CİHAN, KESKİN HAKAN (2017). EFFECTS OF CUTTING DIRECTIONS ON THE BONDING STRENGTH IN SOME WOOD TYPES. *Construction and Building Materials*, 134, 1-6., Doi: 10.1016/j.conbuildmat.2016.12.104 (Yayın No: 3652486)
11. KÜÇÜKTÜVEK MUSTAFA, KASAL ALİ, KUSKUN TOLGA, ERDİL YUSUF ZİYA (2017). UTILIZING POPPY HUSK-BASED PARTICLEBOARDS AS AN ALTERNATIVE MATERIAL IN CASE FURNITURE CONSTRUCTION. *BioResources*, 12(1), 839-852. (Yayın No: 3652492)
12. KESKİN HAKAN, KÜÇÜKTÜVEK MUSTAFA, GÜRÜ METİN (2015). THE POTENTIAL OF POPPY (PAPAVER SOMNIFERUM LINNAEUS) HUSK FOR MANUFACTURING WOOD-BASED PARTICLEBOARDS. *Construction and Building Materials*, 95, 224-231., Doi: 10.1016/j.conbuildmat.2015.07.160 (Yayın No: 3652496)
13. AKTAŞ BÜLENT, TEKELİ SÜLEYMAN, KÜÇÜKTÜVEK MUSTAFA (2014). GRAIN GROWTH AND SINTERABILITY IN ER2O3-DOPED CUBIC ZIRCONIA (C-ZRO2). *International Journal of Materials Research*, 105(2), 208-214., Doi: 10.3139/146.110999 (Yayın No: 3652501)

Articles published in international refereed journals:

14. AKTAŞ BÜLENT,TEKELİ SÜLEYMAN,KÜÇÜKTÜVEK MUSTAFA (2014). ELECTRICAL CONDUCTIVITY OF ER2O3-DOPED C-ZRO2 CERAMICS. Journal of Materials Engineering and Performance, 23(1), 349-355., Doi: 10.1007/s11665-013-0750-5 (Yayın No: 3652503)
15. TEKELİ SÜLEYMAN, AKTAŞ BÜLENT, KÜÇÜKTÜVEK MUSTAFA (2012). MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF ER2O3-ZRO2 CERAMICS WITH DIFFERENT ER2O3 CONTENTS. High Temperature Materials and Processes, 31(6), 701-706., Doi: 10.1515/htmp-2011-0145 (Yayın No: 3652499)

B. Papers presented at international scientific meetings and published in proceedings:

1. KÜÇÜKTÜVEK MUSTAFA, KESKİN HAKAN (2019). INVESTIGATION OF MECHANICAL AND PHYSICAL PROPERTIES OF LAMINATED LARCH WOOD IN TERMS OF FURNITURE AND BUILDING MATERIAL PRODUCTION. 5. Uluslararası Mühendislik Mimarlık ve Tasarım Kongresi (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5636610)
2. KÜÇÜKTÜVEK MUSTAFA, KESKİN HAKAN (2019). INVESTIGATION OF THE SUITABILITY OF LAMINATED WOOD MATERIALS PRODUCED IN DIFFERENT COMBINATIONS IN INTERIOR ARCHITECTURE.5. Uluslararası Mühendislik Mimarlık ve Tasarım Kongresi (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5636600)
3. KÜÇÜKTÜVEK MUSTAFA, ÖRMECİOĞLU HİLAL TUĞBA (2019). THE AESTHETIC SENSE OF TRANSLUCENT MATERIALS IN BUILDING. International Design and Engineering Symposium Sustainability, Innovation, Production (Özet Bildiri/Sözlü Sunum)(Yayın No:5335563)
4. KÜÇÜKTÜVEK MUSTAFA, KESKİN HAKAN (2019). THE COMPRESSION STRENGTH PROPERTIES OF LAMINATED VENEER LUMBER (LVL) TREATED WITH IMORSOL-AQUA SOLUTION. The XXIXth International Conference Research for Furniture Industry (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5412159)
5. KÜÇÜKTÜVEK MUSTAFA, KESKİN HAKAN (2019). THE EFFECT OF IMPREGNATION WITH I-AQUA SOLUTION ON PHYSICAL AND MECHANICAL PROPERTIES OF LIMBA WOOD MATERIALS. The XXIXth International Conference Research for Furniture Industry (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5412192)
6. KÜÇÜKTÜVEK MUSTAFA, ÖRMECİOĞLU HİLAL TUĞBA (2019). A STUDY ON FUNCTIONALITY OF MATERIAL ANALYSIS REPORTS USED IN RESTORATION OF HISTORICAL BUILDINGS. International The 1stInnovation, Sustainability, Technology and Educationin Civil Engineering Conference, 192-197. (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5203637)
7. KÜÇÜKTÜVEK MUSTAFA, KESKİN HAKAN (2019). SOME TECHNOLOGICAL PROPERTIES OF LAMINATED ULUDAG FIR (ABIES NORDMANNIANA SUBSP. BORNMULLERANA MATTF.) WOOD MATERIAL. 2. International Congress on Engineering and Architecture (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5412029)
8. KÜÇÜKTÜVEK MUSTAFA, KESKİN HAKAN (2019). IMPACTS OF VERTICAL AND PARALLEL ANNUAL RING ARRANGEMENTS TO GLUE LINE ON SOME MECHANICAL PROPERTIES OF LAMINATED WOOD MATERIAL. 2. International Congress of Engineering and Architecture (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5412042)
9. KÜÇÜKTÜVEK MUSTAFA, KESKİN HAKAN (2019). THE IMPACT OF NOISE IN THE WOODWORKING INDUSTRY ON HUMAN HEALTH. 2. International Congress on Engineering and Architecture (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:5412008)
10. KÜÇÜKTÜVEK MUSTAFA, ŞEKERCİ YAREN (2018). DENİZ SUYU İKLİMLENDİRME SİSTEMİ KULLANIM POTANSİYELİNİN İNCELEMESİ. IV INTERNATIONAL ACADEMIC RESEARCH CONGRESS (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:4904225)
11. KÜÇÜKTÜVEK MUSTAFA (2016). THE EFFECT OF ADHESIVE RATIO, HARDENER RATIO AND PRESS TEMPERATURE ON SOME TECHNOLOGICAL PROPERTIES OF WOOD BASED COMPOSITE PANELS. Eighth Scientific and Technical Conference Innovations in Forest Industry and Engineering Design (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:3652928)
12. TOKER HİLMİ, KÜÇÜKTÜVEK MUSTAFA, SANCAR EMRAH,TÜRKOĞLU TÜRKAY,BAYSAL ERGÜN (2016). SOME BIOLOGICAL PROPERTIES OF HEAT-TREATED SCOTS PINE WOOD. International Furniture Conference (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:3652513)
13. AŞCI TANER, KESKİN HAKAN, KÜÇÜKTÜVEK MUSTAFA (2015). IMPACTS OF ROSIN (C19H29COOH) TO RETENTION PERFORMANCE OF BORON COMPOUNDS BORAX (NA2B4O710H2O) AND BORIC ACID (H3BO3). 27th International Conference Research for Furniture Industry (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:3652508)
14. KÜÇÜKTÜVEK MUSTAFA, KESKİN HAKAN, AŞCI TANER (2015). EVALUATION OF SOME TECHNOLOGIC PROPERTIES OF POPPY HUSK (PAPAVER SOMNIFERUM LINNAEUS) AND BLACK PINE WOOD (PINUS NİGRA VAR. PALLASIANA) BASED PARTICLEBOARDS. XXVIIth International Conference Research for Furniture Industry (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:3652509)

15. TEKELİ SÜLEYMAN,AKTAŞ BÜLENT,KÜÇÜKTÜVEK MUSTAFA (2011). EFFECT OF ERBIUM OXIDE (Er₂O₃) AMOUNT ON PHASE STABILITY, SINTERING AND MICROSTRUCTURAL EVOLUTION OF CUBIC ZIRCONIA (c-ZrO₂)/ERBIUM OXIDE (Er₂O₃) NANO COMPOSITES. 3rd International Conference on Ultrafine Grained and Nanostructured Materials Center of Excellence For High Performance Materials School of Metallurgy and Materials Engineering (Tam Metin Bildiri/Sözlü Sunum)(Yayın No:3652511)

C. Written national / international books or chapters in books:

C2. Chapters in national / international books written:

1. Green Adhesives: Preparation, Properties and Applications, Bölüm adı:(Green- Wood Flooring Adhesives) (2020)., KÜÇÜKTÜVEK MUSTAFA, Scrivener Publishing LLC, Editör:Inamuddin Rajender Boddula Mohd Imran Ahamed Abdullah M. Asiri, Basım sayısı:1, ISBN:DOI: 10.1002/9781119655053.ch10. English(Bilimsel Kitap). (Yayın No: 6366569)
2. EDUCATIONAL BUILDINGS AND DESIGN, Chapter Name: (HEALTHY MATERIAL SELECTION IN EDUCATIONAL BUILDINGS) (2019)., KÜÇÜKTÜVEK MUSTAFA, Pegem Akademi, Editör:Selda Al Sensov. Basım sayısı:1. ISBN:978-605-037-058-4. Türkçe(Bilimsel Kitap). (Yayın No: 5709436)
3. Recent Advances in Energy Conservation Techniques for Building Workshop: From Micro Scale to Level, Bölüm adı:(Biobased Sustainable Building Material) (2019)., KÜÇÜKTÜVEK MUSTAFA, Coventry Üniversitesi, Editör:Kerem Yavuz Arslanlı, Shuli Liu, Ashish Shukla, Ulaş Akın, Begüm Sertyeşilşik, Anil Kashyap, Basım sayısı:1, ISBN:978-1-84600-081-2, English(Bilimsel Kitap), (Yayın No: 4954759)
4. Design and Engineering Sustainability, Innovation and Production, Bölüm adı:(The Aesthetic Sense of Translucent Building Materials) (2019)., KÜÇÜKTÜVEK MUSTAFA,ÖRMECİOĞLU HİLAL TUĞBA, Frontpage Publications Limited, Editör:Aslı Güneş Gölbeç, Gaye Birol, Uğur Çavdar, Basım sayısı:1, Sayfa Sayısı 302, ISBN:978 93 81043 40 0, English(Bilimsel Kitap), (Yayın No: 5675183)
5. Mühendislik ve Mimarlık Çalışmaları 2018, Bölüm adı:(Deniz Suyu İklimlendirme Sistemi Kullanım Potansiyelinin İncelenmesi) (2018)., KÜÇÜKTÜVEK MUSTAFA,ŞEKERCİ YAREN, Çizgi Kitapevi, Editör:Prof. Dr. Nizamettin Çiftçi, Prof. Dr. Yusuf Yanar, Basım sayısı:1, ISBN:978-605-196-227-6. Türkçe(Bilimsel Kitap). (Yayın No: 4922154)

F. Art and design events:

1. National, WORKSHOP /, 26.04.2018-27.04.2018, Design Festival , (No: 271077)
2. International, WORKSHOP /, 04.12.2017-08.12.2017, Recent Advances in Energy Conservation Techniques for Buildings Workshop: From Micro Scale to Urban Level . (No: 152075)

Editor

1. American Journal of Construction and Building Materials, Science Publishing Group

Design

1. Waves, Mustafa Küçüktüvek, After walking or jogging on the beach people wants to relax and enjoy the panorama. There is a need for a new bench design that are compatible with the beauty of the environment that will reflect our dreams on the seaside. The bench form is reminiscent of waves. Thanks to light-emitting concrete, the light appearing on the bench after sunset is reminiscent of the stars at night times. Light-emitting concrete traps solar energy during the daytime and converts it into light in the night. Which means this concrete emits the light at night time without using electricity. This bench is made from durable, recyclable, and strong material to resist humid condition because of the sea and last longer. Keywords: Seaside bench, street furniture, outdoor furniture, technology and design, light-emitting concrete, sustainable design., 01.10.2018 -28.02.2019
2. Leisure Bed (LB), Leisure Chair (LC) Leisure Coffee Table (LCT), Mustafa Küçüktüvek, This design is suitable for indoor/outdoor pools and beaches. In addition to aesthetic concerns, comfort, peace, security, usefulness, and technological requirements are taken into consideration in the design. 01.01.2019 -19.01.2020

Course

1. Sustainable Buildings, within the scope of Erasmus project numbered 2017-1-FR01-KA103-035598, has been given training on "Sustainable Buildings and Traditional Turkish Architecture" in French Guiana in South America. In addition, researches have been made on "Use of Tropical Tree Species in Wooden Constructions and Natural Ventilation Systems in Buildings". French Guiana, Course, 14.05.2018 - 20.05.2018 (International)

Researches

2. To Explore the Use of Local Surroundings to Motivate and Improve the Teaching of Environmental Education, Decision makers from 11 European countries participated in this study. I attended on behalf of Turkey sustainability study, environmental analysis, by experts on the use of shared facilities were good examples of the local environment., Aberdeen, Scotland, United Kingdom, Research, 08.06.2009 - 13.06.2009 (International)

Seminar

3. Learning in an Informal Way: arts, music and literature in adult education, 28 Avrupa ülkesinden 51 temsilcinin katıldığı bir irtibat semineri çalışması. Seminerde yetişkin eğitiminde sanat, müzik ve edebiyatın informal öğrenmedeki rolü üzerine konuşmalar ve atölye çalışmaları yapılmıştır. Seminer kapsamında yetişkin eğitimi veren kuruluşlar ziyaret edilmiş eğitim mekanlarının tasarımları incelenmiştir., Udine, Seminer, 20.10.2005 -24.10.2005 (International)

Speeches

4. Professionals and university students have been trained on new Building Materials, "Translucent concrete, light-emitting concrete, moss panels, transparent wood, smart glasses, synthetic spider silk, transparent aluminum, hydroceramic, liquid tiles, airgel and self-cleaning materials". Girne , My Speeches, 28.04.2018 -28.04.2018 (International)