

Prof. Sermin Onaygil

Personal Information

Office Phone: [+90 212 285 3946](tel:+902122853946)

Fax Phone: [+90 212 285 3884](tel:+902122853884)

Email: onaygil@itu.edu.tr

Web: <https://avesis.itu.edu.tr/onaygil>

Address: İTÜ Enerji Enstitüsü, Ayazağa Kampüsü, 34469, Maslak, İstanbul

International Researcher IDs

ORCID: 0000-0003-4259-9691

ScopusID: 6603132654

Yoksis Researcher ID: 149219

Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği (Dr), Turkey 1983 - 1990

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği (YI) (Tezli), Turkey 1981 - 1983

Undergraduate, Yildiz Technical University, Faculty Of Electrical & Electronics, Elektrik Mühendisliği Bölümü, Turkey 1975 - 1979

Foreign Languages

English

Dissertations

Doctorate, Tünel Aydınlatmasında Eşik Bölgesi Parıltısının Tayini, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Mühendisliği, 1990

Postgraduate, Yapıların Projektörlerle Aydınlatılması, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Anabilim Dalı, 1983

Research Areas

Technical Sciences, Electrical and Electronics Engineering, Energy, Lighting Technology

Academic Titles / Tasks

Professor, Istanbul Technical University, Enerji Enstitüsü, Enerji Planlaması Ve Yönetimi, 2003 - Continues

Associate Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 1994 - 2003

Assistant Professor, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 1991 - 1994

Research Assistant, Istanbul Technical University, Elektrik-Elektronik, Elektrik Mühendisliği, 1980 - 1991

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Enerji Planlaması Ve Yönetimi Anabilim Dalı, 2003 - Continues

İstanbul Teknik Üniversitesi, Aydınlatma Türk Milli Komitesi, 1995 - 2011

İstanbul Teknik Üniversitesi, Enerji Enstitüsü, 2008 - 2010

İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, 1995 - 1997

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Reviewing the implementations and studies of energy efficiency obligation schemes towards establishing a scheme in Turkey**
Cin R., Onaygil S.
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- II. **Implementations of energy performance contracts in the energy service market of Turkey**
Akkoç H. N., Onaygil S., Acuner Türet E., Cin R.
Energy for Sustainable Development, vol.76, 2023 (SCI-Expanded)
- III. **Application of energy efficiency obligation scheme for electricity distribution companies in Turkey**
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- IV. **Energy service market evaluation by Bayesian belief network and SWOT analysis: case of Turkey**
Acuner Türet E., Cin R., Onaygil S.
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- V. **Analysis of energy efficiency obligation scheme implementation in Turkey**
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- VI. **DESIGN OF A CHIP ON BOARD (COB) LED BASED INDUSTRIAL LUMINAIRE WITH THERMAL SIMULATIONS**
Ates S., Yurtseven M. B., Onaygil S.
LIGHT & ENGINEERING, vol.27, no.2, pp.78-87, 2019 (SCI-Expanded)
- VII. **Determining minimum visibility levels in different road lighting scenarios**
Büyükkınacı B., ONAYGİL S., GÜLER Ö., Yurtseven M. B.
Lighting Research & Technology, vol.50, pp.1045-1056, 2018 (SCI-Expanded)
- VIII. **The effects of temperature and driving current on the key parameters of commercially available, high-power, white LEDs**
Yurtseven M. B., METE S., Onaygil S.
LIGHTING RESEARCH & TECHNOLOGY, vol.48, no.8, pp.943-965, 2016 (SCI-Expanded)
- IX. **COMPARISON OF ROAD LIGHTING CALCULATIONS WITH MEASUREMENTS USING CONVENTIONAL AND CAMERA LUMINANCE METERS**
BUYUKKINACI B., Onaygil S., Güler Ö., Yurtseven M. B.
LIGHT & ENGINEERING, vol.24, no.4, pp.56-63, 2016 (SCI-Expanded)
- X. **Thermal simulation and validation of LED-based luminaires using two-resistor compact thermal model**
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LIGHTING RESEARCH & TECHNOLOGY, vol.46, no.5, pp.576-586, 2014 (SCI-Expanded)
- XI. **An experimental investigation of energy saving potentials for room type variable-speed air conditioners in public offices: A case study from Istanbul**
Yurtseven M. B., Erkin E., ACUNER E., Mete S., Onaygil S.
Energy and Buildings, vol.68, no.PARTA, pp.165-171, 2014 (SCI-Expanded)
- XII. **An Approach for Calculating Lighting Energy Saving Potentials in the Office Buildings on the Basis of LENI Data**
ERKİN E., Onaygil S.

- Light&Engineering (Svetotekhnika), vol.0, 2014 (SCI-Expanded)
- XIII. **An Experimental Study on Tubular Fluorescent and LED Lamps with Respect to Energy Performance and Visual Comfort**
MANAV B., ERKİN E., GÜLER Ö., Onaygil S.
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- XIV. **The Role of Energy Efficiency and Renewable Energies in Turkish Energy Policy A Comparative Analysis**
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- XV. **Cost analyses of LED luminaires in road lighting**
Onaygil S., Güler Ö., Erkin E.
Light and Engineering, vol.20, no.2, pp.39-45, 2012 (SCI-Expanded)
- XVI. **A Research on Office Workers Color Preferences Five Color Samples Under Six Lighting Alternatives**
MANAV B., GÜLER Ö., Onaygil S., KÜÇÜKDOĞU M. Ş.
Arkitekt, vol.0, 2009 (AHCI)
- XVII. **The Importance of Lighting Among Energy Efficiency Studies in Turkey**
Onaygil S.
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- XVIII. **Energy saving by compact fluorescent lamps in the residences considering user satisfaction**
Erkin E., Onaygil S., Güler Ö.
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- XIX. **Determination of the effects of structural properties on tunnel lighting with examples from Turkey**
Onaygil S., Guler O., ERKIN E.
TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY, vol.18, no.1, pp.85-91, 2003 (SCI-Expanded)
- XX. **The effect of luminance uniformity on visibility level in road lighting**
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- XXI. **Determination of the energy saving by daylight responsive lighting control systems with an example from Istanbul**
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Building and Environment, vol.38, no.7, pp.973-977, 2003 (SCI-Expanded)
- XXII. **Prediction of the Artificial Illuminance Using Neural Networks**
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- XXIII. **Parameters Affecting the Determination of the Tunnel Threshold Zone Luminance**
Onaygil S.
TURKISH JOURNAL OF ENGINEERING AND ENVIRONMENTAL SCIENCES, vol.0, 1999 (SCI-Expanded)

Articles Published in Other Journals

- I. **Subjective experience of discomfort glare in a daylight computerized office in istanbul and its mathematical prediction with the DGIN method**
Nazzal A., Güler Ö., Onaygil S.
ARI Bulletin of the Istanbul Technical University, vol.54, no.3, pp.96-107, 2005 (Scopus)
- II. **Effects of Road Types on the Visibility of the Target**
GÜLER Ö., ONAYGİL S.
ABC Journal, 2003 (Peer-Reviewed Journal)
- III. **A New Criterion for Road Lighting: Average Visibility Level Uniformity**
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IV. A Project on Automatically Controlled Office Lighting Systems

ONAYGİL S., ÇOLAK N., Enarun D., KÖKNEL YENER A.

Ingineria II Illuminatului, 1999 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. ENERGY SAVINGS FOR ADAPTIVE LED CONVERSION IN EXISTING ROAD LIGHTING INSTALLATIONS**
ONAYGİL S., GÜLER Ö., YURTSEVEN M. B., Avşar T. B., Büyükbaş B.
CIE 2023, 30th Session of the CIE, Ljubljana, Slovenia, 15 September 2023, vol.1, pp.433-442
- II. Life Cycle Assessment on Conversion to LED in Road Lighting**
Onaygil S., Yurtseven M. B., Berberoğlu E.
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- III. The Importance of Luminous Intensity Distribution in Adaptive Road Lighting for Twin Bracket Central Arrangement Systems**
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- V. Road Lighting Control According to EN 13201-1**
Büyükkınacı B., ONAYGİL S., GÜLER Ö., Yurtseven M. B., Dursun Y.
Balkan Light 2018, Sofija, Bulgaria, 4 - 06 June 2018
- VI. Feasibility analysis of the high performance COB LED based industrial luminaire**
ATEŞ S., Yurtseven M. B., ONAYGİL S.
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- VII. Smart Lighting Solutions for Residences Using IoT Infrastructure: Advantages, Disadvantages and Effects on Energy Saving**
Onaygil S., Erkin E.
7th Balkan Conference on Lighting (BalkanLight), Varna, Bulgaria, 20 - 22 September 2018, pp.5-9
- VIII. Determination of Road Lighting Automation Strategies Considering Driving Safety Based on Visibility Concept**
Büyükkınacı B., ONAYGİL S., GÜLER Ö., Yurtseven M. B.
CIE Conference on Smarter Lighting for Better Life, JEJU, South Korea, 23 - 25 October 2017, pp.277-283
- IX. Applied Analysis of Photovoltaic Power Systems in Buildings within the Scope of Energy Efficiency**
Keskiner S., ONAYGİL S.
23rd World Energy Congress 2016, İstanbul, Turkey, 9 - 13 October 2016, vol.2, pp.1975-1984
- X. How Does Energy Efficiency Work Shopping Malls in Istanbul**
Acuner E., ATEŞ S., Yurtseven M. B., ONAYGİL S.
9th International Conference Improving Energy Efficiency in Commercial Buildings and Smart Communities, Frankfurt, Germany, 16 - 18 March 2016, pp.524-530
- XI. ANALYSIS OF ROAD LIGHTING AUTOMATION SCENARIOS ACCORDING TO VISIBILITY PERFORMANCE**
BUYUKKINACI B., Onaygil S., Güler Ö., Yurtseven M. B.
CIE Conference on Lighting Quality and Energy Efficiency, Melbourne, Australia, 3 - 05 March 2016, pp.355-364
- XII. Yol Aydınlatması Tesisatlarında Otomasyon Stratejileri**
Büyükkınacı B., ONAYGİL S., GÜLER Ö., Yurtseven M. B.
8. Ulusal Aydınlatma Sempozyumu, İzmir, Turkey, 21 - 24 October 2015

- XIII. **Yüksek Güçlü LED Işık Kaynaklı Aydınlatma Armatürlerinin Soğutmasında Isı Borusu Kullanımı**
ATEŞ S., ONAYGİL S.
8. Ulusal Aydınlatma Sempozyumu, İzmir, Turkey, 21 - 24 October 2015
- XIV. **Katı Hal Aydınlatma Ürünleri Ömür Ölçümü ve Tahmini Standartları**
Yurtseven M. B., ONAYGİL S.
8. Ulusal Aydınlatma Sempozyumu, İzmir, Turkey, 21 - 24 October 2015
- XV. **Visibility Concept In Road Lighting and Analysis Of The Critical Object**
Burcu B., ONAYGİL S., GÜLER Ö., Yurtseven B.
Balkan Light 2015, The 6th Balkan Conference on Lighting, 16 - 19 September 2015
- XVI. **Investigation of the Effects of Thermal Interface Materials on the Thermal Performance of Luminaires with High Power LEDs**
Yurtseven M. B., ONAYGİL S.
BalkanLight 2015, Athens, Greece, 16 - 19 September 2015
- XVII. **Sıcaklık ve Sürüş Akımının LED lerin Karakteristik Özelliklerine Etkisinin İncelenmesi**
Yurtseven M. B., ATEŞ S., ONAYGİL S.
10. Ulusal Aydınlatma Kongresi, İstanbul, Turkey, 16 - 18 April 2015
- XVIII. **Türkiye de Şehiriçi Yol Aydınlatmalarındaki Gelişmeler LED Teknolojisi ve Otomasyon**
ONAYGİL S.
10. Ulusal Aydınlatma Kongresi, İstanbul, Turkey, 16 - 18 April 2015
- XIX. **LED Standartlarındaki Gelişmeler**
Yurtseven M. B., ONAYGİL S.
10. Ulusal Aydınlatma Kongresi, İstanbul, Turkey, 16 - 18 April 2015
- XX. **The Effect of Temperature on the Color Characteristics of Light Emitting Diodes**
Yurtseven M. B., ATEŞ S., ONAYGİL S.
Bullight 2014, 10 - 13 November 2014
- XXI. **Yol Aydınlatmalarında FV-LED Sistemlerinin Tekno-Ekonomik Analizi**
AKDAĞ S. A., GÜLER Ö., ERKİN E., ONAYGİL S.
VII. Ulusal Aydınlatma Sempozyumu, İzmir, Turkey, 21 November 2013
- XXII. **LED Panel Armatürlerin Ofis Aydınlatmasında Retrofit Amaçlı Kullanımının İncelenmesi**
ERKİN E., YURTSEVEN M. B., GÜLER Ö., ONAYGİL S.
VII. Ulusal Aydınlatma Sempozyumu, İzmir, Turkey, 21 November 2013
- XXIII. **An Approach to Calculate Lighting Energy Saving Potentials in the Office Buildings Based on LENI Data**
ERKİN E., ONAYGİL S.
12th European Lighting Conference LUX EUROPA, Krakow, Poland, 17 - 19 September 2013
- XXIV. **Feasibility Analysis of Solar Powered Led Road Lighting System**
GÜLER Ö., AKDAĞ S. A., ERKİN E., ONAYGİL S.
Lux Europa 2013, Krakow, Poland, 17 September 2013
- XXV. **Feasibility Analysis of Solar Powered LED Road Lighting Systems**
GÜLER Ö., Akdağ S. A., ERKİN E., ONAYGİL S.
12th European Lighting Conference LUX EUROPA, Krakow, Poland, 17 - 19 September 2013
- XXVI. **The Optical Design of LED Based Energy Efficient Industrial Luminaire**
Gündüz N., ERKİN E., ONAYGİL S.
12th European Lighting Conference LUX EUROPA, Krakow, Poland, 17 - 19 September 2013
- XXVII. **A LENI based Methodology to Estimate Lighting Energy Saving Potential in the Office Buildings**
ONAYGİL S., ERKİN E.
The fifth Conference Balkan Light 2012, Belgrade, Serbia, 3 - 06 October 2012
- XXVIII. **The Effect of LED Luminaire Orientation on the Photometric Measurements Thermal Aspects**
Yurtseven M. B., Ögüş G., ONAYGİL S.
The fifth Conference Balkan Light 2012, Belgrade, Serbia, 3 - 06 October 2012
- XXIX. **New Trends in Technical Lighting Applications LED Technologies**

ONAYGİL S.

The fifth Conference Balkan Light 2012, Belgrade, Serbia, 3 - 06 October 2012

- XXX. **How to Develop a Sustainable Financing Markets for the Promotion of Energy Efficiency in Building Sector Towards Low Carbon Society Case of Turkey**
Acuner E., ONAYGİL S.
IEECB12, Frankfurt, Germany, 18 - 19 April 2012
- XXXI. **Yol Aydınlatmasında LED' li Armatürlerin Ekonomik Analizi**
ONAYGİL S., GÜLER Ö., ERKİN E.
VI. Ulusal Aydınlatma Sempozyumu, İzmir, Turkey, 24 November 2011
- XXXII. **LEDs in Road Lighting,**
ONAYGİL S., GÜLER Ö., ERKİN E.
19th International Conference Light 2011, Ecology -Economics – Efficiency, Prague, Czech Republic, 21 September 2011
- XXXIII. **THERMAL ANALYSIS METHODS AND PROCESSES IN LED LUMINAIRE DESIGN**
Onaygil S., Yurtseven M. B., Erkin E.
27th Session of the International-Commission-on-Illumination (CIE), South Africa, 10 - 15 July 2011, pp.679-684
- XXXIV. **Cost Analyses of LED Luminaires in Road Lighting**
ONAYGİL S., GÜLER Ö., ERKİN E.
27th Session of the CIE, Sun City, South Africa, 09 July 2011
- XXXV. **Tüp Floresan Lambalı Tesisatların LED' li Tesisatlar ile Enerji Performansı ve Aydınlatma Kalite Kriterleri Açısından Karşılaştırılması**
MANAV B., ERKİN E., GÜLER Ö., ONAYGİL S.
8. Ulusal Aydınlatma Kongresi, İstanbul, Turkey, 14 April 2011
- XXXVI. **Yol Aydınlatma Tesisatlarında LED' li Armatür Kullanımının Teknik ve Ekonomik Açidan İncelenmesi**
ONAYGİL S., GÜLER Ö., ERKİN E.
8. Ulusal Aydınlatma Kongresi, İstanbul, Turkey, 14 April 2011
- XXXVII. **Legislative Framework of Building Sector Energy Efficiency in Turkey**
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IEECB10, Frankfurt, Germany, 13 - 14 April 2010
- XXXVIII. **Saving Potentials in Energy Consumption of Lighting Systems Examples from Turkey within the Framework of Energy Efficiency Studies**
ONAYGİL S., GÜLER Ö., ERKİN E., Acuner E.
CIE Conference on Lighting Quality and Energy Efficiency, Viyana, Austria, 14 - 17 March 2010
- XXXIX. **Energy Efficient and Cost Effective Solutions For Industrial Lighting: Tubular Fluorescent Lamps vs Discharge Lamps**
ONAYGİL S., ERKİN E., GÜLER Ö.
CIE 2010", Lighting Quality and Energy Efficiency, Vienna, Austria, 14 March 2010
- XL. **LED Technologies in Road Lighting**
ONAYGİL S., GÜLER Ö., ERKİN E.
CIE Light and Lighting Conference with Special Emphasis on LEDs and Solid State Lighting, Budapest, Hungary, 27 - 29 May 2009
- XLI. **Sanayi Enerji Tüketiminde Aydınlatmanın Yeri Ve Tasarruf Potansiyelleri**
ONAYGİL S., GÜLER Ö., ERKİN E., CEBECİ E.
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- XLII. **An investigation on impacts of daylight responsive control systems in terms of energy quality and saving**
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- XLIII. **Lighting at hotels in Antalya Is it efficient enough**
Acuner E., ERKİN E., ONAYGİL S.
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- XLIV. Effects of parameters in road lighting cost calculation formulas**
Özkızılkaya Ö., ONAYGİL S.
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- XLV. Endüstride Tavan Yüksekliğine Bağlı Aydınlatma Çözümleri**
ONAYGİL S., GÜLER Ö., ERKİN E., CEBECİ E.
V. Ulusal Aydınlatma Sempozyumu, İzmir, Turkey, 07 May 2009
- XLVI. Yol Aydınlatmalarında LED Kullanımı**
ONAYGİL S., GÜLER Ö., ERKİN E.
V. Ulusal Aydınlatma Sempozyumu, İzmir, Turkey, 07 May 2009
- XLVII. Endüstride Verimli Aydınlatma**
ONAYGİL S., GÜLER Ö., ERKİN E., CEBECİ E.
1. Ulusal Enerji Verimliliği Forumu, İstanbul, Turkey, 15 January 2009
- XLVIII. Türkiye Pazarındaki Kompakt Floresan Lambaların Teknik Açidan İncelenmesi**
GÜLER Ö., ERKİN E., AKDAĞ S. A., ONAYGİL S.
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- XLIX. Energy Cost Analysis in Road Lighting**
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- L. The Importance of Lighting Among Energy Efficiency Studies in Turkey**
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- LI. Yol Aydınlatması Tesisatlarında Armatür Fotometrik Değerlerinin Önemi**
GÜLER Ö., ONAYGİL S.
IV. Ulusal Aydınlatma Sempozyumu, İzmir, Turkey, 13 December 2007
- LII. Importance of the Installation Design in Optimal Solution of Urban Lighting**
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- LIIL. Effects of Different Colour Temperatures and Illuminance Levels on the Preference of Wall Colours at Offices**
MANAV B., GÜLER Ö., ONAYGİL S., KÜÇÜKDOĞU M. Ş.
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- LIV. Energy Saving by Compact Fluorescent Lamps in the Residences Considering User Satisfaction**
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- LV. Examination of Small Target Visibility and Visibility Level as Road Lighting Design Criteria**
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- LVI. Examination of Small Target Visibility and Visibility Level as Road Lighting Design Criteria**
ONAYGİL S., GÜRSOY S. B., GÜLER Ö.
26th Session of the CIE, Beijing, China, 04 July 2007
- LVII. Energy efficiency consulting companies: An overview of the current situation in the world**
Acuner Meylani E., ONAYGİL S.
Energy Efficiency Congress 6, İstanbul, Turkey, 12 - 13 June 2007, pp.41-54
- LVIII. Aydınlatmada Verimlilik**
ONAYGİL S., GÜLER Ö.
26. Enerji Verimliliği Haftası Konferansı, Ankara, Turkey, 11 April 2007
- LIX. Konutlarda Kompakt Floresan Lamba Kullanımındaki Tercihler**
ONAYGİL S., GÜLER Ö., ERKİN E.
6. Ulusal Aydınlatma Sempozyumu, İstanbul, Turkey, 23 November 2006
- LX. Kontrol Sistemlerinin Kullanıldığı Yol Aydınlatması Tesisat Kriterlerinin Görülebilirlik Esasına Göre Belirlenmesi**

- GÜRSOY S. B., ONAYGİL S., GÜLER Ö.
6. Ulusal Aydınlatma Sempozyumu, İstanbul, Turkey, 23 November 2006
- LXI. **Ofislerde Farklı Aydınlatma Seçeneklerinde Duvar Rengi Tercihi**
MANAV B., GÜLER Ö., ONAYGİL S., KÜÇÜKDOĞU M. Ş.
6. Ulusal Aydınlatma Sempozyumu, İstanbul, Turkey, 23 November 2006
- LXII. **Türkiye Şehiri İçerik Yolu Aydınlatması Şartnamelerindeki Yenilikler**
ONAYGİL S., GÜLER Ö.
6. Ulusal Aydınlatma Sempozyumu, İstanbul, Turkey, 23 November 2006
- LXIII. **Energy Efficiency in Street Lighting of Turkey**
ONAYGİL S., GÜLER Ö.
Urban Nightscape 2006, Atina, Greece, 21 - 23 September 2006
- LXIV. **Ticari Binaların Elektrik Enerjisi Tüketiminde Aydınlatmanın Payı**
ONAYGİL S., GÜLER Ö., ERKİN E., GORALI E.
III. Ulusal Aydınlatma Sempozyumu ve Sergisi, Ankara, Turkey, 23 November 2005
- LXV. **Şehiriçi Yolu Aydınlatma Tesisatlarının İyileştirilmesi**
ONAYGİL S., GÜLER Ö.
III. Ulusal Aydınlatma Sempozyumu ve Sergisi, Ankara, Turkey, 23 November 2005
- LXVI. **A Case Study in İstanbul Energy Saving by Using Compact Fluorescent Lamps in the Residences**
ONAYGİL S., ERKİN E., GÜLER Ö., SAYGIN H.
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- LXVII. **Investigations of the Studies on Visibility Concept in Road Lighting**
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- LXVIII. **A Case Study in İstanbul: Energy Saving by Using Compact Fluorescent Lamps at the Residences**
ONAYGİL S., ERKİN E., GÜLER Ö., SAYGIN H.
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- LXIX. **The Effect of Observer Position and Movement on Road Lighting Criteria**
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- LXX. **Applicable Light Points in the Residences for Compact Fluorescent Lamps and Potential Energy Saving**
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Applicable Light Points in the Residences for Compact Fluorescent Lamps and Potential Energy Saving, Cluj-Napoca, Romania, 4 - 05 July 2005
- LXXI. **Yolu Aydınlatmasında Verimlilik**
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Non Academic Experience

Philips Lighting Design and Application Center, Eindhoven, Hollanda