

CURRICULUM VITAE

1. Name Surname: Cem Öztürk

2. Date of Birth: November 27, 1972

3. Title: Asst. Prof. Dr..

4. Education Background

Degree	Major	University	Year
B. Sc.	Electrical and Electronics Engineering	Bogazici University, İstanbul, TURKEY	1995
M. Sc.	Electrical and Computer Engineering	University of California, Santa Barbara, USA	1997
Ph.D.	Electrical and Computer Engineering	University of California, Santa Barbara, USA	2002

5. Positions Held

Title	Institution	Year
Research Assistant	University of California, Santa Barbara, USA	1995-2002
Post Doc..	University of California, Santa Barbara, USA	2002-2004
Asst. Prof. Dr.	Sabancı University, Istanbul, TURKEY	2004-2014
Asst. Prof.Dr.	Girne American University, TRNC	2015-present

6. Graduate Theses Supervised

6.1 Masters Theses

Can Sümer, A Highly Asymmetric Hybrid Directional Coupler Sensor , Electrical and Compter Engineering,2005

6.2 Ph.D. Theses

Emre Heves ‘PbS COLLOIDAL QUANTUM DOTS BASED PHOTODETECTORS FOR INTEGRATED SWIR DETECTION’ , Electronics Engineering ,2012

Publications

7.1 Published international journal papers

SCI:

[1]E. Heves, **C. Ozturk**, V. Ozguz and Y.Gurbuz. ‘*Solution Based-PbS Photodiodes, Integrable on ROIC, for SWIR Detector Applications*’ IEEE Electron Device Letters, Vol. 34, Issue 5, pp. 662-664, May 2013 (**Times cited in SCI: 5**)

[2]E. Heves, **C. Ozturk** and Y.Gurbuz ‘*Responsivity improvement in PbS CQD Photoconductors using colloidal gold nanoparticles*’ IET Electronics Letters, Vol. 49, Issue 5, pp 367-368, February 2013

[3]F.Fatih Melemez, Talha Boz, Pandian Chelliah,Gokhan Bektas,,Mehmet Yildiz, **Cem Ozturk** and Yusuf Z. Menceloglu ‘*Study of Local and Transient Buckling in Glass fiber Reinforced Composite Using Fiber Bragg Grating*’,Key Engineering Materials, Vol. 543, pp. 346-351, January 2013

[4] M. Yıldız, N.G. Ozdemir, G. Bektas, C. J. Keulen, T.Boz, E.F. Sengun, **C. Ozturk**, Y.Z. Menceloglu, A. Suleman, ‘*An Experimental Study on the Process Monitoring of Resin Transfer Molded Composite Structures Using Fiber Optic Sensors*’, ASME Journal of Manufacturing Science and Engineering, Vol 134, August 2012 (**Times cited in SCI: 1**)

[5] Kim, D. G., Shin, J. H., **Ozturk, C.**, Yi, J. C., Chung, Y., Dagli, N, ‘*Rectangular Ring Lasers Based on Total Reflection Mirrors and Three Waveguide Couplers*’, *IEEE Photonics Technology Letters*, Vol. 19, No. 5, pp. 306-308, March 2007 (**Times cited in SCI: 7**)

[6] Kim D.G.; Choi Y.W., Yi J.C.; Chung Y., **Ozturk C.**, Dagli N. ‘*Multimode Interference Coupled Ring Resonators Based On Total Internal Reflection Mirrors*’, *Japanese Journal of Applied Physics Part 1*, Vol 46, No 1, pp. 175-181, January 2007 (**Times cited in SCI: 6**)

[7] D.G. Kim, J.H. Shin, **C. Ozturk**, J.C. Yi,Y. Chung, N. Dagli, ‘*Total Internal Reflection Mirror Based InGaAsP Ring Resonators Integrated With Optical Amplifiers*’, *IEEE Photonics Technology Letters*, Vol. 17, No. 9, pp. 1899-1902, September 2005 (**Times cited in SCI: 28**)

[8] J.H. Shin, **C. Ozturk**, S.R. Sakamoto, Y.J.Chiu, N. Dagli, ‘*Novel T-Rail Electrodes for Substrate-Removed Low Voltage, High Speed GaAs/AlGaAs Electro-optic Modulators*’, *IEEE Transaction on Microwave Theory and Techniques*, Vol. 53, No. 2, pp. 636-644, February 2005 (**Times cited in SCI: 15**)

[9] **C. Ozturk**, A. Huntington, A. Aydinli, Y.T. Byun, N. Dagli, “Filtering Characteristics of Hybrid Integrated Polymer and Compound Semiconductor

Waveguides”, *IEEE Journal of Lightwave Technology*, Vol. 20, No. 8, pp. 1530-1536, August 2002. (**Times cited in SCI:6**)

[10] S. R. Sakamoto, **C. Ozturk**, Y.T. Byun, J. Ko and N. Dagli, “Low Loss Substrate-Removed (SURE) Optical Waveguides in GaAs/AlGaAs Epitaxial Layers Embedded in Organic Polymers,” *IEEE Photonics Technology Letters*, Vol. 10, No. 7, pp. 985-987, July 1998. (**Times cited in SCI: 19**)

7.2 International conference papers published in proceedings

[1] P. Chelliah, A. Deniz, C.Keulen, G. Bektas, T. Boz, F. Melemez, **C. Ozturk**, A. Suleman and M. Yildiz ‘*Simulation Studies of Spectral Subtraction Based Temperature Compensation of FBG Sensor for Structural Health Monitoring*’, IWSHM2013, Stanford University, CA, USA, page 478, September 2013

[2] T. Boz, P. Chelliah, G. Bektas, F. F. Melemez, M. Yildiz, **C. Ozturk**, “*Damage Detection in Composite Plates using Fiber Bragg Gratings*”, ECCM15 - 15th European Conference On Composite Materials, Venice, Italy, 24-28 June 2012.

[3] F.Fatih Melemez, Talha Boz, Pandian Chelliah, Gokhan Bektas, Mehmet Yildiz, **Cem Ozturk**, Yusuf Z. Menciloglu, “*Study of Local and Transient Buckling in Glass Fiber Reinforced Composite using Fiber Bragg Gratings*’, International Conference on Materials and Applications for Sensors and Transducers, May 24-28, 2012, Budapest, Hungary

[4] G Bektas, T. Boz, C J Keulen, M.Yildiz, **C Ozturk**, Y Z Menciloglu, and A Suleman: “ *Fiber Bragg Grating, Etched Optic Sensors for Flow and Cure Monitoring of Resin Transfer Molded Composite Structures*”, The 18th International Conference on Composite Materials, August 21-26, 2011, ICC Jeju, Korea

[5] Fazli Fatih Melemez , Talha Boz, Pandian Chelliah, Gokhan Bektas, M.Yildiz, **Cem Ozturk**, Yusuf Ziya Menciloglu: “*Fatigue Monitoring of Glass Fiber Reinforced Composite using Fiber Bragg Grating*”,14th International Conference on Advances in Materials & Processing Technologies, , 13-16 July 2011, Istanbul, Turkey

[6] D.G. Kim, J.H. Shin, **C. Ozturk**, Y.C. Shin, N. Dagli, ‘ Novel ring cavity resonators incorporating total internal reflection mirrors and semiconductor optical amplifiers ’, *Proceedings Conference on Lasers and Electro-optics (CLEO) 2005*,, Page(s):276 - 278 Vol. 1, Baltimore, MD, USA, May 2005

[7] D.G. Kim, J.H. Shin, **C. Ozturk**, Y.C. Shin, N. Dagli, ‘Multimode Interference Coupled Ring Cavity Resonator with Total Internal Reflection Mirrors and Semiconductor Optical Amplifier’, *IEEE/LEOS 2004 17th annual meeting*, Paper PD2.4, Puerto Rico, November 2004

[8] D.G. Kim, **C. Ozturk**, J.H. Shin, J.C. Yi, N. Dagli, ‘ Self-aligned Total Internal Reflection Mirrors with Very Low Loss’, *OSA Integrated Photonics Research (IPR) Conference*, Paper IthG5, San Francisco, CA, USA, July 2004

[9] **C. Ozturk**, Y. J. Chiu, N. Dagli, “Polymer / Compound Semiconductor Hybrid Micro Resonators with Very Wide Free Spectral Range”, *IEEE/LEOS 2002 15th annual meeting*, Conf. Proceedings, Vol. 2, pp. 744-745, Glasgow, Scotland, UK, November 2002

[10] **C. Ozturk**, N. Dagli, “Coupled Polymer Waveguides and Substrate Removed GaAs Waveguides as Tunable Filters”, *OSA/IPR Trends in Optics and Photonics*, Conf. Proceedings, Vol. 45, pp. 240-242, Quebec, Canada, July 2000

[11] **C. Ozturk**, A. W. Jackson, N. Dagli, “Filtering Characteristics of Coupled Polymer Waveguides and Substrate Removed (SURE) GaAs Waveguides”, *SPIE Photonics West*, Paper. 3950-15, San Jose, CA, USA, January 2000

[12] **C. Ozturk**, Y.T. Byun, S.R. Sakamoto, N. Dagli, “ Integrated Polymer/Semiconductor Grating Reflector for WDM Applications”, *IEEE/LEOS 11th Annual Meeting*, Conf. Proceedings, Vol.2, pp. 5-6, Orlando, FL, USA, December 1998

[13] S. R. Sakamoto, **C. Ozturk**, Y.T. Byun, J. Ko and N. Dagli, “Substrate-Removed (SURE) Optical Waveguides in GaAs/AlGaAs Epitaxial Layers Embedded in Benzocyclobutene (BCB),” *OSA 1998 Integrated Photonics Research Conference*, Paper IMF2, Victoria, BC, Canada, March 30 – April 1, 1998.

7.3 International books written or sections in those books

7.4 Published national journal papers

7.5 National conference papers published in proceedings

[1] **C. Ozturk**, N. Dagli, ‘ Bir Yalıtkan Üzerine GaAs/AlGaAs Mikroışleme Teknolojisi ve Bunun Elektrooptik ve Fotonik Cihaz Uygulamaları’, **5th National Optics, Photonics and Electrooptics Conference**, METU, December 2003, Ankara, Turkey

[2] **C. Ozturk**, N. Dagli, ‘ WDM Fiber Optik Sistemler İçin Tasarlanmış Polimer-Yarıiletken Dalgaboyu Süzgeçleri’ **5th National Optics, Photonics and Electrooptics Conference**, METU, December 2003, Ankara, Turkey

[3] **C. Ozturk**, N. Dagli, ‘ Optik Mikrozonaatör Cihazların Analizi ve GaAs ve InP Üzerinde Uygulamaları’ **6th National Optics, Photonics and**

Electrooptics Conference, Sabanci University, December 2004, Istanbul, Turkey

[4] C. Sumer, **C. Ozturk**, ‘*Yüksek Derecede Asimetrik Melez Yönlü Bağlaştırıcı Algılayıcısı*’ **7th National Optics, Photonics and Electrooptics Conference**, Bilkent University, Dec 2005, Ankara, Turkey

[5] H. Kurt, Y. Fatoglu, E.H. Cıngıl, **C. Ozturk**, C. W. Ow-yang, ‘*Synthesis and Characterization of PVP-capped ZnO nanocrystals*’ **4th National Nanoscience and Nanotechnology Conference** ITU, June 2008, Istanbul, Turkey

7.6 Other publications

8. Projects

Projects Funded by International Organisations

Chip Scale Wavelength Division Multiplexing (CSWDM)
DARPA/ US Navy, 2002-2003

Multidisciplinary Optical Switching Technology (MOST) DARPA/US Air Force, 1995-2002

Projects Funded by National Organisations

[1] ‘*Otomotiv Dış Aydınlatma Sistemleri İçin Farklı Geometrilere Sahip Işık Tüplerinin Homojenite Odaklı Optik Tasarımı ve Prototip İmalatı*’
TUBİTAK /SAN-TEZ ,2013-2015

[2] ‘*Monitoring Fatigue Behavior and Life of Fiber Reinforced Polymeric Composite Materials by Fiber Bragg Grating Sensors.*’
TUBİTAK MAG (112M357), 2013-2015

[3] ‘*Intravenous Ultrasonic Imaging System Design*’
TUBİTAK EEEAG (EEEAG 104E067) 2004-2009

9. Administrative Positions

Sabancı University, Faculty of Engineering and Natural Sciences, Electronics Engineering Program Coordinator, **2009-2010**

President of the Optical Committee of Turkey (OCT) , **2006-2011**

10. Memberships to Scientific Institutions

11. Awards

- October 2002 General Motors Delco Defense Systems Inc. Science Fellowship Award (For outstanding PhD. Thesis Dissertation)
- September 1995 NATO Science Fellowship