

## Curriculum vitae

Mustafa AYDIN



## Contact information

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<http://nano-optoelectronics.org>

## Degrees

2017- PhD. Physics, Istanbul University, Istanbul, Turkey

2010-2014 MSc. Physics, Yıldız Technical University, Istanbul, Turkey;

Thesis Entitled "Electrical properties of TiO<sub>2</sub> - porous silicon joint"

[Supervised by Yrd. Doç. Dr. Çiğdem Oruç]

2006-2010 BSc. Physics, Istanbul University, Istanbul, Turkey

## Employment

2011 - 2013 Civil Lecturer, Institute of Science, Turkish Air Force

## Scholarly activities

2013, Si/Porous Silicon/TiO<sub>x</sub>/Au Structures for Direct Ammonia Fuel Cells

M. AYDIN, S.A. YÜKSEL, T. D. DZHAFAROV, C. ORUC LUS, Poster Presentation, Turkish Physical Society 30Th International Pyhsics Congress, 2-5 September 2013, İstanbul, TURKEY

Microporous Silicon for Direct Ammonia Fuel Cell

M.AYDIN, S.A. YÜKSEL, T. D. CAFEROV, Poster Presentation, International Congress on Materials and Renewable Energy (MRE 2013), 1-3 July 2013, Athens, GREECE

Porous Silicon- TiO<sub>2</sub> Based Hydrogen Cells

M.AYDIN, S.A. YÜKSEL, Poster Presentation, Turkish Physical Society 29Th International Pyhsics Congress, 5-8 September 2012, Bodrum, TURKEY

Effect of Porous Silicon Anodization Conditions on Electrical Parameters of Au/PS/nSi Schottkey Diodes

M.AYDIN, S.AYDIN YÜKSEL, Ç.ORUÇ LUŞ, Poster Presentation, Turkish Physical Society 28Th International Pyhsics Congress, 6-9 September 2011, Bodrum, TURKEY

## **Research Areas**

Hydrogen Energy, Fuel cell, Electronic, Optic and Optoelectronic Devices, Porous Silicon, Solid State, Semiconductors, Sensors, Nanotechnology

## **Computer skills**

MS Office programs, Matlab, Mathematica, Web design tools (HTML language, Frontpage, Dreamweaver, Flash, Php), Origin, graphic design programs (Fireworks, Paint shop Pro), Microsoft Windows Server 2012 Administration, AD, DHCP, Exchange Server 2012 installation and administration, Firewall, VPN, Network Architecture.

## **Research Projects**

2012-2014 Electrical properties of TiO<sub>2</sub> - porous silicon joint, Yıldız Technical University, coordinator of scientific research projects, Project Number:2012-01-01-YL04.

## **Publications**

### **Non SCI Papers**

Nanoporous Silicon-Based Ammonia-Fed Fuel Cells, Tayyar D. Dzhafarov, Sureyya Aydin Yuksel, Mustafa Aydin, Materials Sciences and Applications Vol.5 No.14, Pub. Date: December 4, 2014