

# Olgun Ergüzel

olgun.erguzel@itu.edu.tr | +90 530 245 2123 | <http://www.olgunerguzel.com>

## EDUCATION

### ISTANBUL TECHNICAL UNIVERSITY

#### PHD IN PHYSICS ENGINEERING

Graduate School of Science  
Engineering and Technology  
2014-Present | Istanbul, Turkey  
3.07 / 4.00

#### MS IN PHYSICS ENGINEERING

Graduate School of Science  
Engineering and Technology  
2009-2014 | Istanbul, Turkey  
GPA: 3.55 / 4.00

### ESKISEHIR OSMANGAZI UNIVERSITY

#### BS IN PHYSICS

Faculty of Arts and Sciences  
2004-2008 | Istanbul, Turkey  
GPA: 2.97 / 4.00

## SCHOLARSHIPS - AWARDS

- Government Scholarship for BilgeAdam IT Services Software Developing, Oct 2015, Istanbul, Turkey
- Visiting Scholar Scholarship, April – June 2015, Boston College, MA, USA

## CERTIFICATES

Oct 2014 IELTS: 7.0  
Nov 2010 GRE-ETS: 300 (Q:157 V:143)

## SKILLS OF

### INSTRUMENTATION

Nano-material Fabrication • Complete Photoluminescence Spectroscopy • Absorption Spectroscopy • FTIR Raman Spectroscopy • XRD • Temperature Controlling Systems

### COMPUTER

Hardware & Support • Mac OSX, Windows, Linux • Matlab, Mathematica, Shadow-Breadth, OriginPro •  $\text{\LaTeX}$ , EndNote, Mendeley, Office Tools • SQL, JavaScript, C#, HTML, CSS, iWeb

### LANGUAGES

Turkish	Mother Tongue
English	Fluent
French	Intermediate

## HOBBIES

Teaching: Subjects, Musical instruments  
Music: Traditional instruments  
Stage Arts: Traditional Dances, Theater  
Travelling: Work And Travel, Summer 2008, CO, USA

## RESEARCH - PUBLICATIONS

### JOURNAL ARTICLES

2. Gokhan Bilir, Olgun Erguzel, "Upconversion emission properties and un-expected white light emission from  $\text{Er}^{3+}/\text{Yb}^{3+}$  doped  $\text{Gd}_2\text{O}_3$  nano-phosphors", Journal of the American Ceramic Society. ID: JACERS-37733. (Under review)

1. Murat Erdem, Olgun Erguzel, Mete K. Ekmekci, Humeyra Orucu, Hatun Cinkaya, Seval Genc, Ayhan Mergen, Gonul Eryurek, Baldassare Di Bartolo, "Bright white up-conversion emission from sol-gel derived  $\text{Yb}^{3+}/\text{Er}^{3+}/\text{Tm}^{3+}:\text{Y}_2\text{SiO}_5$  nanocrystalline powders", Ceramics International, 2015, 41, 12805-128010. <http://dx.doi.org/10.1016/j.ceramint.2015.06.116>

### CONFERENCE ABSTRACTS

2. Olgun Erguzel, Murat Erdem, Mete Kaan Ekmekci, Gonul Eryurek, Baldassare Di Bartolo, "White Upconversion Emission From  $\text{Yb}^{3+}/\text{Er}^{3+}/\text{Tm}^{3+}:\text{Y}_2\text{SiO}_5$  Nanopowders", 2015 International Porous and Powder Materials Symposium and Exhibition, Page 109, Cesme – Izmir, Turkey, 15-18 September 2015 – Oral Pr.

1. Olgun Erguzel, Murat Erdem, Mete Kaan Ekmekci, Gonul Eryurek, Baldassare Di Bartolo, "Upconversion White, Blue and Red Emission from  $\text{Yb}^{3+}/\text{Er}^{3+}/\text{Tm}^{3+}:\text{Y}_2\text{SiO}_5$  nanocrystalline powders", Spring 2015 Meeting of the APS New England, Section Volume 60, Number 5, Boston, Massachusetts, 24-25 April 2015 – Oral Pr. <http://meetings.aps.org/link/BAPS.2015.NES.D2.1>

### THESIS & DISSERTATION

• 2014 | Master of Science thesis of physics engineering  
*The Effect of  $\text{Er}^{3+}$  Concentration on Structural and Optical Properties of  $\text{ZnSe}$  Quantum dot Doped  $\text{SiO}_2$  Glass.*  
Advisor: Prof. Gönül Eryürek

• 2008 | Bachelor of Science dissertation of physics  
*Performance Effects of Home Made Proton Exchange Membrane Fuel Cell at Various Operating Temperatures.*  
Advisor: Assoc. Prof. Ismail Özkan

## EXPERIENCE

### PRIVATE TEACHING | LECTURER

Jan 2006 – Present | Istanbul

- Teaching Physics and Mathematics at high school level and teaching Advanced Calculus, Linear Algebra and Physics at undergraduate level.

### ISTANBUL TECHNICAL UNIVERSITY | TEACHING ASSISTANT

January 2009 – June 2009 | Istanbul

- Gived applied lectures in Laboratory of Electricity and Magnetism at undergraduate level.

## REFERENCES

• Prof. Gönül Eryürek, Graduate Advisor  
Istanbul Technical University, Istanbul, TURKEY.  
[gozenl@itu.edu.tr](mailto:gozenl@itu.edu.tr), [gonul@bc.edu](mailto:gonul@bc.edu)  
<http://www.fizik.itu.edu.tr/ozeng/CV-GOzen.pdf>  
Tel: +90 212 285 3206.

• Assoc. Prof. Selçuk Aktürk, Graduate Lecturer  
Istanbul Technical University, Istanbul, TURKEY.  
[selcuk.akturk@itu.edu.tr](mailto:selcuk.akturk@itu.edu.tr)  
<http://www.fizik.itu.edu.tr/akturks/>  
Tel: +90 212 285 3205

• Assoc. Prof. İsmail Özkan, Undergraduate Advisor  
Eskisehir Osmangazi University, Eskisehir, TURKEY  
[iso@ogu.edu.tr](mailto:iso@ogu.edu.tr)  
Tel: +90 222 239 3750/2808.