

ZÜLEYHA ÖZLEM KOCABAŞ



PERSONAL INFORMATION:

Date & Place of Birth: August, 31, 1985 Istanbul/Turkey

Current Adress: Sabancı University dormitory F-11

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Nationality: Turkish

CAREER OBJECTIVES:

To join a challenging PhD study on materials science or chemical engineering at a research institution, where I can apply my academic abilities and lab experience.

EDUCATION:

PhD.

2008 - present: Sabancı University, Istanbul/Turkey, in Material Science & Engineering
GPA: 3.8 over 4.00
Advisor: Prof. Dr. Yuda Yürüm

B. S.

2003 - 2008: Sabancı University, Istanbul/Turkey, in Material Science & Engineering
GPA: 3.13 over 4.00

High School

2000-2003: Gebze Anatolia High School, Kocaeli/Turkey
GPA: 4.52 over 5.00

RESEARCH INTEREST:

Nanomaterial syntheses and characterizations, Water remediation, Adsorption processes of metals on the organic/inorganic surfaces, Boron nitride nanotube synthesis.

RESEARCH EXPERIENCE:

2008-present **PhD. studies at Sabancı University, Turkey**

- Removal of arsenic species from water by using adsorption process
- Synthesis of titanium dioxide nanoparticles

2003-2008

Undergraduate Research studies at Sabanci University, Turkey

- Graduation Project: *Design of a Piezoactuator* - design of a piezoelectric mechanism consisting of a flexible structure actuated by piezoceramics, Project Advisor: Assoc. Prof. Dr. Güllü Kızıldağ Şendur
- *Photoluminescence Properties of Bariumaluminate* – producing single phase bariumaluminate doped with Europium and Dysprosium, Project Advisors: Assoc. Prof. Dr. Cleva Ow-Yang - Assoc. Prof. Dr. M. Ali Gülgün
- *Micro Air Vehicle* - designing and manufacturing piezoelectric composite materials, determining the properties of mechanic and piezoelectric fiber (PVDF, ZnO), Project Advisor: Assoc. Prof. Dr. Melih Papila

Summer 2007

Internship at BOSCH in Applied Science Research Center in Gerlingen/GERMANY

- The synthesis of mullite by using sol-gel method and characterization of sintered mullite samples by instrumental analysis.

ACADEMIC AWARDS:

- 2008-2010 Full Scholarship, Sabanci University, PhD. Program of Material Science & Engineering
- Certificate of High Honor for Spring 2007 Faculty of Engineering and Natural Sciences, SU
- Certificates of Honor for Spring 2005 and Fall 2007, Faculty of Engineering and Natural Sciences, SU

CONFERENCES AND SYMPOSIUMS PAPERS:

- Z. Ö. Kocabaş, Y. Yürüm, **Removal of As(III) from water/wastewater by adsorption using titanium dioxide nanoparticles**, V. National Nanoscience And Nanotechnology Conference, Eskisehir, June 2009.
- Z. Ö. Kocabaş, Y. Yürüm, **The effect of titanium dioxide nanoparticles on As(III) removal from water**, International Conference On Nanomaterials And Nanosystems, Istanbul, August 2009.
- Z. Ö. Kocabaş, Y. Yürüm, **Binding mechanisms of arsenic on activated carbon, red mud and granular titanium dioxide: A potential method for arsenic removal from water /wastewater**, 11th International Conference on Environmental Science and Technology, Crete/Greece, September 2009.
- Z. Ö. Kocabaş, Y. Yürüm, **Adsorption mechanism of arsenite on Fe⁺³ impregnated activated carbon**, Carbon Materials for Today and Future, Turkish-Japanese Joint Carbon Symposium, Istanbul, March 2010.

- Z. Ö. Kocabaş, Y. Yürüm, **A parametric evaluation of the removal As(III) and As(V) from aqueous solution by red mud**, 6th Chemical Engineering Conference For Collaborative Research In Eastern Mediterranean Countries, Antalya, March 2010.
- Z. Ö. Kocabaş, Y. Yürüm, **Enhanced photocatalytic oxidation of As³⁺ using titania nanoparticles for arsenic removal from water**, Third National Catalysis Conference, Zonguldak, May 2010.

TEACHING ASSISTANT EXPERIENCE:

2008-present *Nature of Science II* (Spring 2009, Fall 2010 and Spring 2010) and *Materials Science and Engineering* (Fall 2009) /Sabanci University

SKILLS:

Computer: Microsoft Office (i.e. MS Word, MS Excel, MS PowerPoint), Photoshop, Dreamviewer and Chem Draw

Laboratory Skills: XRD, FT-IR, DSC, STA, SEM, GPC, DLS, NMR, UV-VIS, scCO₂ setup, Electrospinning.

Languages: Turkish Native
 English Advanced in speaking, writing and reading
 German Elementary in speaking, writing and reading

SOCIAL ACTIVITIES & INTERESTS:

Civic Involvement Project: Participant: Kurtköy Primary School (2003– 2004)

SU Club Memberships: Folk Dancing Club

REFERENCES:

Prof.Dr.Yuda Yürüm, FENS, Sabanci University, Tuzla, Istanbul, Turkey,
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Assoc. Prof. Dr. Mehmet Ali Gülgün, FENS, Sabanci University, Tuzla, Istanbul, Turkey,
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Assist. Prof. Dr. Alpay Taralp, FENS, Sabanci University, Tuzla, Istanbul, Turkey,
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