Kamil KİRAZ, M.Sc.



R&D Engineer Chemist, Material Scientist



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EDUCATION

Ph. D. Candidate

Energy Materials and Devices

Eindhoven University of Technology, The Netherlands 2009 - Recent

Master of Science

Material Science and Engineering

Koç University, Turkey 2006 – 2009

Bachelor of Science

Chemistry

Koç University, Turkey 2001 – 2006

WORK EXPERIENCE

KU - Akkim Boron Research Center - İstanbul, TR

Team Leader

R&D and Mid-Scale Production of Boron Carbide as advanced shield material 2017 – Recent



Pavezyum Advanced Chemicals - İstanbul, TR

Project Leader

Product Development of Aluminum Borides as solid rocket propellant Product Development and Prototype generation of Airbag igniters & inflators 2014 – Recent



Eindhoven University of Technology - Eindhoven, NL

Researcher, Ph.D. Candidate

Electrochemical hydrogenation of Mg based thin film energy storage electrodes 2009 – 2014



Koç University - İstanbul, TR

Research Assistant
Synthesis and Analysis of inorganic compounds
2001 – 2009 (Part Time)



INTERNSHIPS

Darmstadt Technical University - Darmstadt, D

Research Assistant
Synthesis and EPR analysis of Piezoelectric PbTiO₃ crystals

2007 (7 months)



Leipzig University - Leipzig, D

Summer internee

Synthesis and NMR analysis of organometallic P₇ units 2004 and 2005 (3 months each)



Degussa AG (Evonik-Degussa)- Hanau, D

Summer internee

Summer internee at Q&C laboratoriers 2003 (3 months)



Koç University- Hanau, D

Resident Assistant, Student Mentee Part time jobs 2001 – 2009



MOTIVATION

I am well educated and internationally experienced on the synthesis and analysis of mainly inorganic chemicals. Recently, working as team and project leader in several projects aiming to develop boron based pyrotechnic compounds used as the airbag igniters, rockets propellants, vehicle shields and energy storing devices.

I am looking forward to spend my efforts on non-regular, challenging tasks.

Born in 1983 in Balıkesir and happily married.

TRAININGS and CERTIFICATES

Search and Rescue Team	KUAK	November 2017
First Aid Specialist	Turkish Ministry of Health	August 2015
Scanning Electron Microscope	FEI Company & KUYTAM	2009 & 2014
X-Ray Diffraction Spectrometer	KUYTAM	August 2014
FT – Infrared Spectroscopy	KUYTAM	July 2014
Radiation Safety	TU/e	August 2009
Electron Paramagnetic Resonance	TUD	July 2007
First aid training	American Hospital	2003 & 2009
Mentorship and Leadership	Pusula	2002 & 2003

SKILLS and PERSONAL INFORMATION

Laboratory	Synthesis and characterization of wide range of inorganic and organometallic materials. Glove Box and Vacuum Line system experience for air & moisture sensitive materials
Equipment	SEM, XRD, XRF, DLS, DSC, RAMAN, IR, UV, EPR, NMR, TGA/DTA, Calorimeter Potentiostats / Galvanostats, FRA and battery analysis tools CCD Image Acquisition and Processing Tools PVD and Magnetron Sputtering devices for thin film production
Computer literacy	Labview, C, Fortran, Matlab, Autolab/Nova, Maccor, Data handling via Origin, SPSS Modeling and animation knowledge in Cinema 4D, SketchUp Multimedia software integration for Visual Arts, Photoshop CS6 Mac OS / Windows, Office software's
Language	Turkish (native), English (fluent), German (intermediate) and Dutch (novice)
Other Skills	Driving licenses: B – Turkey 2003 and B – The Netherlands 2011, A2 – Turkey 2015
Marital Status	Married
Military Service	Fulfilled (2013)
Date and Place of Birth	11.05.1983 – Balıkesir Turkey

EXTRACURRICULAR SOCIAL ACTIVITIES

Oy ve Ötesi	Contributor	İstanbul – TR	2013 - Recent
ASCD Middle East Conference	Head of the Org.	Swiss Hotel - TR	November 2008
World Economic Forum	Student Leader	Swiss Hotel - TR	October 2008
SIVO 08 Folkdance Festival	Team Leader	Odoorn NL - NL	August 2008
Max-Planck Institute Workshop	Organizer	Koç University - TR	May 2008
NATO Summit – YATA	Delegate	Bucharest - RO	April 2008
A ² International Education Fairs	Translator	İstanbul – TR	2006 - 2008
IAESTE – Internship Exchange	Founder Pres.	Koç University - TR	2004 - 2005
Folklore Club	President	Koç University - TR	2003
KU – Student Council	Delegate	Koç University - TR	2002
Turkish Aeronautical Assoc.	Parachute Jumper	THK Eskişehir - TR	2002

PUBLICATIONS

- S. Seidel, M. Somer, K. Kiraz, U. C. Rodewald, R. Pöttgen, Li₄BaBN₂ Structure and Vibrational Spectra, *Zeitschrift für Anorganische und Allgemeine Chemie*, 2017/4/1
- K. Kiraz, T. G. Manivasagam, P. H. L. Notten, Transmission Analysis of Optically Active Binary Magnesium Hydrides during Electrochemical (de)Hydrogenation, (in progress)
- T. G. Manivasagam, K. Kiraz, P. H. L. Notten, Electrochemical and optical properties of Magnesium-alloy hydrides reviewed, *Crystals*, Vol. 2, No. 4, (2012) 1410-1433
- E. Erdem, **K. Kiraz**, M. Somer, R. A.Eichel, Size effect in Fe³⁺-modified PbTiO₃ nanocrystals formation and orientation of (Fe'_{Ti} V••₀)• defect-dipoles. *Journal of European Ceramic Society*, Vol. 30, No. 2, (2010) 289-293
- E.Erdem, M.D. Drahus, S.K.S. Parashar, K. Kiraz, M. Somer, A. Rüdiger, R.A. Eichel, Defect Structure in Aliovalently-Doped and Isovalently Substituted Ferroelectric PbTiO₃ Nano-Powders, Functional Materials Letters, Vol. 11, No. 11, (2009) 1–6
- **★ K. Kiraz**, Synthesis and Characterization of Fe³+ doped PbTiO₃ Nanopowders, MSc. Thesis, Koç University İstanbul, (2009) Online Link

REFERENCES

Prof. Dr. Mehmet SOMER msomer@ku.edu.tr 0090-212-338 1352	Koç University	2001 – Recent Academic - Personal
Prof. Dr. Peter Notten p.h.l.notten@tue.nl 0031-40-247 3069	Eindhoven Technical University	2009 – 2014 Academic
Dr. Emre Erdem emre.erdem@physchem.uni-freiburg.de 0049-761-203 6207	Freiburg University	2004 – Recent Academic – Personal
Dr. Bilgen Bilgin bbilgin@ku.edu.tr 0090-212-338 1217	Koç University	2001 – 2009 Personal – Social