

KAMİL KIRAZ

R&D Engineer – Chemist
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WORK EXPERIENCE

Project Leader	Koç University – Turkey	2014 – Present
Design and optimization of the novel smart switchable mirror thin films by using custom electro-optical setup design and Labview software. Full time, project based position. In corporation with Koç University and Eindhoven University of Technology. Financed by Tübitak in which the project is proposed and submitted by myself.		
Researcher	Eindhoven Uni. of Tech. – The Netherlands	2009 – 2014
Constructing a new optical analysis method for electrochemically hydrogen storing thin films. Full time, project based position. Supervisor: Prof. Dr. Peter Notten (ACTS – NWO)		
Research Assistant	Koç University – Turkey	2006 – 2009
Synthesis and analysis of advanced inorganic compounds in various projects in the Inorganic R&D laboratories of KU. Part time position. Supervisor: Prof. Dr. Mehmet Somer (Tübitak, DAAD)		
Visiting Scientist	Darmstadt Technical University – Germany	2007 – 2008
EPR Analysis of piezoelectric Fe doped PbTiO ₃ advanced ceramics. Full time, project based position. Supervisor: Prof. Dr. Rudiger-A. Eichel (SFB)		

Part Time Works and Internships

Research internee	Leipzig University – Germany	Summer 2004 & 2005
The prestigious DAAD program grants 6 months of full time summer internships. Supervisor: Prof. Dr. Eva Marie Hey-Hawkins (DAAD stipend)		
Laboratory Assistant	Koç University – Turkey	2002 – 2009
Preparation of the experiments and assisting chemistry students during the laboratory courses for the Chemistry 101 & 102 (for Chemists) and 103 (for Engineers) courses.		
Resident Assistant	KU Dormitories – Turkey	2003 – 2006
Guiding and assisting students in the dormitory and forming the connection in between the dorm office and the students. Part time campus job.		
Student Mentor	Koç University – Turkey	2003 – 2006
Guiding and assisting the Erasmus and freshman Chemistry students during their adaptation periods to enrich the campus and city life. Part time campus job.		
Internee	Evonik-DEGUSSA AG – Germany	Summer 2003
Summer internships in the industry. Optimization work in the Quality and Control unit of Evonik-Degussa the leading producer of Aerosil (TiO ₂) and derivatives. Supervisor: Dr. Werner Michel, R&D and Q&C Laboratories		

EDUCATION

PhD Candidate	Eindhoven University of Technology	2009 – recent
Department	Dept. of Chemical Engineering and Chemistry – Energy Materials and Devices Group	
Project	Hydrogen Storing Energy Carrier Electrodes (MgTiXH ₂ systems)	
Finance	ACTS Program of NWO (The Netherlands Organisation for Scientific Research)	
Details	100% English and Expected Graduation year: 2016	
MSc. Degree	Koç University & Darmstadt Tech. Uni.	2006 – 2009
Department	Material Science and Engineering	
Project	Improving piezoelectric PbTiO ₃ nanopowders via Fe ³⁺ doping	
Finance	Tübitak, Koç University, SFB	
Details	100% English, Full success scholarship, GPA: 3,26 / 4.00	
BSc. Degree	Koç University	2001 – 2006
Department	Chemistry Department	
Project	Synthesis of sustainable P ₇ ³⁻ building block units	

Finance Koç University, DAAD
Details 100% English, Full success scholarship, GPA: 3,20 / 4.00

PERSONAL and SKILLS

Laboratory	Synthesis and characterization of wide range of inorganic and organo-metallic materials. Glove Box and Vacuum Line system experience for air & moisture sensitive materials
Equipment	SEM, XRD, 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	Programming knowledge in 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, Final Cut 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	Single
Military Service	Fulfilled (2013)
Date and Place of Birth	11.05.1983 – Balıkesir Turkey

TRAINING and CERTIFICATES

- First Aid specialist – Ministry of Health; August 2015
- Scanning Electron Microscope (SEM), KUYTAM – İstanbul; August 2014
- X-Ray Diffraction Spectrometer (XRD), KUYTAM – İstanbul; August 2014
- Infrared Spectroscopy (IR), KUYTAM – İstanbul; July 2014
- Scanning Electron Microscope (SEM), FEI Company – Eindhoven; December 2009
- Radiation Safety for X-Ray diffraction, Center for Radiation Protection – Eindhoven; August 2009
- Electron Paramagnetic Resonance (EPR), Technical University Darmstadt – Darmstadt; July 2007
- First aid training by American Hospital İstanbul; 2003, 2009 and 2015.
- Mentorship and leadership trainings by Pusula; 2002 and 2003

EXTRACURRICULAR SOCIAL ACTIVITIES

- Oy ve Ötesi contributor for fair voting system in Turkey, 2013 – Recent
- ASCD Middle East Conference, Head of the Organization, November 2008
- World Economic Forum 2008 Istanbul, External Staff – Student Leader, October 2008
- Participant of SIVO 08 Folkdance Festival in Odoorn – Netherlands, August 2008
- Organizer of 3rd Bilateral Workshop with Max-Planck Institute / Koç University – İstanbul, May 2008
- YATA-Turkey delegate at NATO Bucharest 2008 Summit, Romania, April 2008
- Translator and Counsel for Ohio University & Drexel University at A² Intl. Edu. Fairs, 2006 – 2008
- Teaching and problem session assistant, KU-Volunteers Club, 2003 – 2006
- Founder and president of KU-IAESTE Club, 2004 – 2005
- President (2003) and dancer in the KU Folklore Club, 2001 – 2009
- Active member of KU German club and Chemistry Group under Science Society, 2001 – 2009
- Freshman delegate in the KU Student Council, 2002
- Participated as team to the International Youth Festival, Ankara, 2002
- Acted in the dramas, Sari Naciye (Tr.) 1999, The Tempest (Eng.) 2001
- Certificated 3 Parachute Jumps in THK, Eskişehir 2001
- 5th place in the National Folk Dances Competition as high school team, 1999
- Sırrı Yırcalı Anatolian High School Chorus, Folk Dance and Acting team 1994 – 1999

PUBLICATIONS

- **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 (Fe³⁺_{Ti} – V^{••}_O)[•] defect-dipoles. *Journal of European Ceramic Society*, Vol. 30, No. 2, (2010) 289-293
- E. Erdem, M.D. Drahos, 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
Prof. Dr. Peter Notten	p.h.l.notten@tue.nl	0031-40-247 3069
Dr. Emre Erdem	emre.erdem@physchem.uni-freiburg.de	0049-761-203 6207
Dr. Bilgen Bilgin	bbilgin@ku.edu.tr	0090-212-338 1217