

Candidate application to the ISGS Board of Directors

Dr. Refika Budakođlu

Age: 42

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WORK EXPERIENCE

2011 - : Senior Researcher, Atmospheric Coating Technologies Management, Research and Technology Development Presidency, ŐŐsecam

1998 - 2011: Research Enginer, Research and Engineering Management, ŐŐsecam



EDUCATIONAL BACKGROUND

- 2002 - 2006 PhD., Yıldız Technical University, Faculty of Arts and Sciences, Department of Chemistry-Inorganic Chemistry,
Thesis Title: *'Development of Hydrophobic and Oleophobic Coatings on Glass Surfaces by Sol-Gel Process'*.
- 1996- 1998 MSc., Middle East Technical University (M.E.T.U.), Faculty of Arts and Sciences, Department of Chemistry- Analytical Chemistry,
Thesis Title: *'Thalassemia and its Relationship with Iron, Zinc and Copper'*.
- 1992 – 1996 BSc., Eastern Mediterranean University (E.M.U), Turkish Republic of Northern Cyprus, Faculty of Arts and Sciences, Department of Chemistry with Management Studies,

RECENT PUBLICATIONS/PRESENTATIONS

R. Budakođlu, E. Ő. Zayim, S. Güzeller, İ. Boz, F. Aslan, "Wet-chemical deposited ITO thin films and their optoelectronic and microstructural properties", The International Conference on Coatings on Glass and Plastics (ICCG11), 12-16 June 2016, Braunschweig (Presenter)

F. Aslan, A. Tumbul, A. Göktaş, R. Budakođlu, İ.H. Mutlu, "Growth of ZnO nanorod arrays by one-step sol-gel process", July 2016, Journal of Sol-Gel Science, Pages 1 – 7.

İ. H. C. Karbay, R. Budakoglu, E.O. Zayim, "Improvement of Mechanical Properties of Glass Substrates", Applied Surface Science, Volume 357, Part B, 1 December 2015, Pages 1890-1894

O. Tuna, A. Sezgin, R. Budakođlu, S. Türküz, H. Parlar, "Electrochromic Properties of Tungsten Trioxide (WO₃) layers grown on ITO/Glass Substrates by Magnetron Sputtering", Vacuum,

B. Yoldas and R. Budakoglu, "Improvement of Fracture Toughness of Glass by a Surface modifying Coating", Pac Rim Conference on Ceramic and Glass Technology, Vancouver, 4th June 2009 (Invited presenter)

STATEMENT of INTEREST

Şişecam Group operates in flat glass, glassware, glass packaging and chemicals. I am working as a senior researcher (permanent staff) in Atmospheric Coating Technologies Management, Science and Technology Presidency of Şişecam Group. I have 18 year research experience in Sol-gel chemistry, Surface Chemistry, Paint chemistry, Nano-technology and CVD.

My research background includes, strengthening of glasses by wet coatings, ormosil based paints and decorative coatings, antibacterial, antireflective, hydrophobic, self-cleaning, photocatalytic and transparent conductive coatings. I have been applying sol-gel science for a long time in the glass field, and as a board member I would like to contribute my experience in industry and cooperate with Sol-Gel experts in the community. As a member of the ISGS, I have participated in the Sol-Gel 2013 and Sol-Gel 2015 conferences until now and I plan to attend the Sol-Gel2017 Conference.