

Candidate application to the ISGS Board of Directors

Prof. / Dr. Andrei Jitianu

Age: 43.....

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Professor Andrei Jitianu completed his PhD in 2001 at the University of Bucharest, Romania. He studied materials chemistry, mainly focusing on sol-gel processes. Since then, he has done postdoctoral research at the Centre de Recherche sur la Matière Divisée (C.R.M.D.) C.N.R.S. / Université d'Orléans, Orléans, France under the guidance of Professor François Béguin, then at Clarkson University, Potsdam, NY working with Professor Egon Matijević, and at Rutgers University, Piscataway, NJ, under the direction of Professor Lisa Klein.

In 2008, he joined City University of New York, Lehman College, Bronx, NY and the Graduate Center of the City University of New York. His research has been focused mainly on new inorganic and organic-inorganic hybrid materials obtained by sol-gel method. These materials have a variety of applications from electronic industry to biomedical materials. He published more than 60 papers in sol-gel science. He developed a new sol-gel laboratory at Lehman College. The research of his group is focused on studies on inorganic and hybrid Sol-Gel materials with applications in hermetic coatings for microelectronics such as OLEDs and batteries. His research group is interested in fundamental studies on the mechanism of formation of the hybrid organic-inorganic gels using spectroscopic methods. Dr. Jitianu is involved in different collaborations with sol-gel scientists from US, Romania, Germany, France and Spain.

In 2010 he received the Feliks Gross Endowment Award from the Graduate Center of the entire City University of New York for his excellence in research. In 2011 he was selected by the Research Council and the Provost of Lehman College – City University of New York to receive the “New Investigator Award”.

He co-edited one of the books in the new series of Advances in Sol-Gel Derived Materials and Technologies, entitled “Sol-Gel Processing for Conventional and Alternative Energy”.

Recent publications

1. M. Apparicio, A. Jitianu, L.C. Klein,
“Sol-Gel Processing for Conventional and Alternative Energy” - Springer- New York, February, 2012
2. M. Jitianu, DC. Gunness, DE. Aboagye, M. Zaharescu, A. Jitianu,
“Nanosized Ni-Al layered double hydroxides - Structural characterization”
Materials Research Bulletin, 48, 2013, 1864-1873
3. L.Gambino, A. Jitianu, L.C. Klein,
“Dielectric behavior of organically modified siloxane melting gels”
Journal Of Non-Crystalline Solids (24), 2012, 3501-3504
4. A. Jitianu, K. Lammers, G.A. Arbuckle-Kiel, L.C. Klein
“Thermal analysis of organically modified siloxane melting gels”
Journal of Thermal Analysis and Calorimetry, 107, 2012, 2039-2045
5. L. Predoana, A. Jitianu, B. Malic, M. Zaharescu
“Study of the gelling process in the La-Co-citric acid system”
Journal of American Ceramic Society, 95 (3), 2012, 1068-1076

Statement of interest

As a member of the Board of Directors of the International Sol-Gel Society I can contribute in the area of the hybrid and nanomaterials and also I can be active in the education and training events. I will connect and bring to the attention of the sol-gel community new directions of research that are at the borderline between sol-gel and other materials science fields. Moreover, I am ready to enthusiastically contribute at different levels in the development of the Journal of Sol-Gel Science and Technology.