Volkan GÜNAY

Professor
Deparment of Materials Science and Nanotechnology Engineering

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Research Interest
Materials Science and Engineering, Ceramic Materials, Glasses, Sol-Gel Technology, Thin Films, Composites, Nanostructured Materials, Armour Materials and Technology

Biography
BSc: Metallurgical Engineering, Istanbul Technical University, 1983
MScTech:Materials Engineering (Ceramic Materials), The University of Sheffield, 1985
PhD: Materials Science, The University of Sheffield, 1990

Paper:

M.O. Bora, O. Coban, T. Sınmazcelik, **V. Gunay**, "Effect of fiber orientation on scratch resistance in unidirectional Carbon-fiber-reinforced polymer matrix composites", J. of Reinforced Plastics and Composites, Vol. 29, No:10, (2010), 1476-1490

V. Günay, S.Hampshire,"Processing and Properties of Pressureless-sintered Si_3N_4-SiC Composites, J. of Materials Processing Technology, 54(1-4), 1996,348-354

B. Ersoy**, V. Gunay,** "Effects of La_2O_3 addition on the thermal stability of γ-Al_2O_3 gels", Ceramics International, 30, (2004), 163-170

S. Kırtay, E. Oktay, **V. Gunay**, "Glass strenthening by SiO_2-TiO_2 organically modified silica coating", Thin solid Films, Vol :515, No :4, Dec.5, pp ;2145-2152, 2006

E. Ercenk, S. Yılmaz, H.O. Toplan, **V. Gunay,** "Grain growth kinetics in the xAl_2O_3-6wt% Bi_2O_3-(94-x)ZnO (x=0, 2, 4) ceramic system", J. of Ceramic Processing Resarch, Vol.10, No.5, 647-651, 2009

P.E. Türk, O. Geçkili, Y. Türk, **V. Günay**, T. Bilgin, "In Vitro Comparison of the Retentive Properties of Ball and Locator Attachments for Implant Overdentures", International Journal of Oral&Maxillofacial Implants, 29 (5), 1106-1113, Sep-Oct 2014

H. O. Gulsoy, **V. Gunay**, T. Baykara, "Influence of TiC, TiN and TiC(N) additions on sintering and mechanical properties of injection moulded titanium based metal matrix composites", Powder Metallurgy, Vol.58, Issue.1 (March 2015), pp.30-35, 2015

T.Yıldız, **V. Günay**, D. Ariburnu, "Determination of the Homogeneity Factors of Industrial Container Glasses by the Christiansen-Shelyubskii Method", Journal of Chemical Technology and Metallurgy, 50, 4, pp.397-403, 2015

Book:
Glass-Ceramics: Science and Technology (**Cam-Seramikler: Bilim ve Teknolojisi), Volkan Günay**, Şenol Yılmaz, TÜBİTAK-MAM, Malzeme Enstitüsü, Kasım 2010, ISBN:978-975-403-535-3.

Courses:
Fall: General Chemistry, Introduction to Materials Science and Nanotechnology Engineering, Materials Science
Spring: General Chemistry, Introduction to Materials Science and Nanotechnology Engineering, Materials Science, Materials Science in Dentistry

Website*