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Turkish Journal	Influence of Medium on Generation of Localized Charges in BeO by the Exposure of the Electrical Discharge in Air and Oxygen
of	
Physics	M. M. ALIYEV Radiation Research Sector of Azerbaijan Academy of Sciencies, H. Javid av., 31a, 370143 Baku-AZERBAİJAN REPUBLIC
C <u>Keywords</u> Authors	Abstract: The EPR-method is used to investigate the regularity of the formation of paramagnetic F^+ - and V^- centers (PC) in BeO which are generated by barrier electrical discharge (ED) in air and oxygen under reduced pressure. It was determined that, at different powers of discharge or parameters E/P, the maximums of kinetic curves of PC- accumulation in oxygen in comparison with air plasma forming medium are changed with resspect to both their value and position, depending on the interaction of oxygen atoms and ions O, O ⁺ , O ⁻ , O ⁺ ₂ , O ⁻ ₂ , Vldots) with BeO surface. These exposures resulted in
@	decreasing rate of generation of F ⁺ -and V ⁻ centers in oxygen plasma in comparison with discharge in air (at t >t\max) and the difference of their concentration in the stationary region (t\rightarrow \infty) of PC-acumulation curves for the same E/P.
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