

CONTENTS

Calculation of degradation spectrum of low energy electrons within infinite homogeneous beryllium oxide on the basis of mathematical modelling Y.D. Jafarov, N.K. Ramazanova.....	5
Application of zirconium nanopowder in hydrogen energy T.N. Agayev, V.I. Guseynov, K.T. Eyubov, S.M. Aliyev.....	12
Neutron activation analysis of 3C-SiC nanoparticles under the neutron flux E.M. Huseynov.....	20
Photochemical processes during irradiation of crude oil in two-phase system “crude oil + water” T.S. Idrisov, M.A. Gurbanov, U.A. Guliyeva.....	27
Radiation-chemical degradation of polychlorobiphenyl in an aqueous medium Z.I. Iskenderova, M.A. Gurbanov.....	35
Review: The role of radiation, Fe(III) oxides and montmorillonite in organic metamorphism I.I. Mustafayev, M.K. Ismayilova.....	40
Study of gamma radiolysis of aqueous formic and oxalic acid solutions by UV- spectroscopy M.A. Gurbanov, U.A. Guliyeva.....	46
The features of the fourier-irreflectionspectra of γ -irradiated gallium sulphide R.S. Madatov, N.N. Gadzhieva, F.G.Asadov.....	51
The mathematical method of ecological geochemical investigations of radioactive pollution on land S.M. Bayramova, A.A. Bayramov.....	57
The study of the influence of gamma radiation on dielectric properties of TlGaSe ₂ crystals O.A. Samedov, O.Z. Alakbarov, A. Najafov, N. Mehdiyev, S.F. Samadov, Kh.B. Nadirova.....	66