

CONTENTS

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