

Contents

Low-carbon radiation-thermal pyrolysis of lignites I.I. Mustafayev, H.M. Hajiyev	5
The research and radiolysis of the composition of oil deposits N.K. Guliyeva, I.I. Mustafayev, F.A. Chickek, S.M. Mamedova	14
Dielectric properties of $TlInS_2(10\%C)$ compound irradiated with gamma quanta O.A. Samadov, Kh.B. Orujova, N.M. Mehdiyev, A.I. Najafov, S.F. Samadov, R.N. Mehdiyeva, T.I. Kerimova	22
Effect of radiation, $FeCl_3$, and $ZnSO_4$ on the amount of photosynthetic pigments in cotton leaves Sh.E. Alakbarova, E.S. Jafarov, H.A. Abiyev, H.G. Babayev	28
Method for cleaning soil contaminated with radioactive waste Kh.N. Shiraliyeva	37
Study of the response of different cotton varieties to pre-sowing gamma treatment of seeds E.S. Jafarov, M.Z. Velijanova, L.V. Allakhverdiyeva, N.R. Guliyeva, G.A. Mammadova, N.M. Eminova	43
Studying regularities of radionuclide adsorption on adsorbents Kh.F. Mammadov, Kh.N. Shiraliyeva	53
Thermal analysis in the investigation of ancient ceramics from the Polutepe archeological site S.G. Mammadov, A.S. Ahadova, V.A. Gasymov, A.Z. Abishov, U.S. Aliyeva-Jabbarli	63
Determination of the toxicity of a new coordination compound with radiation protective action N.F. Maharramova	70