

CONTENTS

Conductivity over localized states of the system of $(\text{TlInSe}_2)_{1-x}(\text{TlGaTe}_2)_x$ solid solutions expose γ -irradiation R.M. Sardarly, O.A. Samedov, N.A. Aliyeva, A.P. Abdullayev, F.T. Salmanov, A.A. Orucova.....	5
Influence of γ -irradiation on properties of composite structure UHMWPE+ α -SiO ₂ M.M. Guliyev, R.S. Ismayilova, A.A. Shukurova, A.A. Nabiye, G.A. Akhundova.....	14
Management of photovoltaic and photoluminescence properties of radiation defects two-barrier structures based on silicon F. P. Abasov.....	24
Terahertz spectra of layered TlInS ₂ crystals R.M. Sardarly, A.Z. Badalov, A.P. Abdullaev, T.N. Vezirova, A.A. Orudjova, M.Y. Yusifov, F. Garet, J. L.Coutaz.....	31
Two nucleon correlation in the (p,t) reaction S.G. Abdulvahabova, N.Sh. Barkhalova, T.O. Bayramova.....	38
The potential model of interaction between nucleon associations I.G. Afandiyeva.....	43
Application of zero-valent iron nanoparticles for the hydrogen production from using photolysis H.M. Mahmudov, M.K. Ismayilova, G.S. Aliyeva	47
Influence of gamma-radiation on oil fraction of petroleum degraded in soil I.I. Mustafayev, N.A. Ibadov, N.G. Guliyeva, Sh. Kh. Hajiyev	52
Radiation-chemical processes in water solutions of phenols and carbonic acids U. A. Guliyeva, S .G. Mammadov, M. A. Gurbanov, Z.I. Iskenderova, E.T. Abdullayev ..	59
Radiation pollution of atmosphere during Metsamor nuclear power station operation and radiation monitoring on the territory of Azerbaijan republic by using drones A.A. Bayramov, G.G. Mansiyev	65
Radiation-thermocatalytic process of hydrogen from RaO-SiO ₂ +H ₂ O mixture T.N. Agayev, Z.A. Mansimov, S.Z. Melikova, G.T. Imanova, K.T. Eyubov	74
Role of synergism effect in molecular hydrogen formation from photocatalitic water splitting H. M. Mahmudov, M. K. Ismayilova, A. A. Panahova, G. S. Aliyeva, K. V. Azizova, M. P. Vatanli, R. R. Hakhiyeva	84