

CONTENTS
2025 no. 3 (23)**SYNTHESIS OF PFG BRAND CORROSION INHIBITOR AND ITS QUANTUM CHEMICAL CALCULATION RESULTS**

A.K. Nomozov, Kh.S. Beknazarov, Y.A. Geldiev, B.E. Babamurodov, N.Sh. Muzaffarova, S.G. Yuldashova 297

NEW PICTURE OF PHASE EQUILIBRIA IN THE Cu-As-Se SYSTEM AND THERMODYNAMIC PROPERTIES OF TERNARY COMPOUNDS

Leyla F. Mashadiyeva, Albina N. Poladova, Ziver T. Hasanova, Bilgeyis A. Ismayilova, Eldar I. Ahmadov, Yasin I. Jafarov, Yusif A. Yusibov, Mahammad B. Babanly 310

BINARY AND TERNARY COPPER FERRITES IN THE OXIDATION OF CARBON MONOXIDE

S.M. Zulfugarova, G.R. Azimova, Z.F. Aleskerova, D.B. Tagiyev 329

SYNTHESIS OF OXAZEPINO COMPOUND VIA ELECTROPHILIC CYCLIZATION AND EVALUATION OF THEIR BIOLOGICAL ACTIVITY

Hayfa Al-Badrani, Nameer S. Ezzat, Yassir S. Al-Jawaheri 343

THE STUDY OF BIODIESEL OBTAINED FROM POMEGRANATE PEEL AND SEED OIL AS AN ALTERNATIVE FUEL

G.S. Mukhtarova, A.B. Suleymanova 356

SYNTHESIS AND CHARACTERIZATION OF FIVE-MEMBERED HETEROCYCLIC COMPOUNDS OF TETRAZOLE DERIVATIVES AND THEIR BIOLOGICAL ACTIVITY

Sara L. Khalil, Neam H. Saleem 365

THERMODYNAMIC STUDY OF COPPER ARSENIDES BY THE EMF METHOD WITH THE $\text{Cu}_4\text{RbCl}_3\text{I}_2$ SOLID ELECTROLYTE

D.M. Babanly, A.R. Aghayeva, E.N. Orujlu, G.B. Dashdiyeva, E.J. Ahmadov, D.B. Tagiyev 375

MODIFICATION OF A POLYETHYLENE AND POLYPROPYLENE BLEND WITH UREA-FUNCTIONALIZED PHENOL-FORMALDEHYDE CO-OLIGOMER

T.T. Shirinov, T.M. Naibova 388

SYNTHESES, CHARACTERIZATION AND THERMAL STABILITY STUDY OF NEW Co(II), Cu(II) AND Zn(II) COMPLEXES DEVIATES FROM SCHIFF BASE 4-(DIMETHYLAMINO)BENZALDEHYDE

Enas H. Mohammed, Mohammed AlSultan, Saba M. Alasalli, Assim A. Sabah 395

THE ROLE OF DIETHYL- AND PROPYLAMINE COMPLEXES OF THE MIXTURE OF OLIGOALKYLARYLSULFONIC ACIDS IN MICROBIAL CORROSION

M.J. Ibrahimova, A.B. Abdullazade, S.A. Mammadkhanova, D.B. Aghamaliyeva, S.A. Seidova 407

A STUDY OF NEWLY SYNTHESIZED BIS SCHIFF-BASE COMPOUNDS DERIVED FROM THE CONDENSATION OF 4,4'-(1-(9H-FLUOREN-2-YL)-2,2,2-TRIFLUOROETHANE-1,1-DIYL) BIS (2-METHYLANILINE) AND AROMATIC ALDEHYDE AND THEIR ANTIOXIDANTS

Nour Abd Alrazzak 414

SYNTHESIS OF VINYL ESTERS OF SOME DICARBOXYLIC ACIDS USING VINYL ACETATE

Sh.Sh. Tursunov, A.B. Parmanov, S.E. Nurmanov, J.U. Abdullaev, Kh.S. Toshov, V. Borisenko, O.N. Ruzimuradov 424

SYNTHESIS, CHARACTERIZATION, AND BIOLOGICAL ACTIVITY OF VARIOUS NEW SCHIFF BASES ASSOCIATED WITH THE 9,10-DIHYDRO-9,10-[3,4]FURANOANTHRACENE-12,14-DIONE GROUP

Zina L. Khaleel, Yassir S. Al-Jawaheri 433

INVESTIGATION OF THE BACTERICIDAL PROPERTY OF AMIDOAMINE SYNTHESIZED FROM OLEIC ACID AND DIETHYLENETRIAMINE AGAINST MICROBIOLOGICAL CORROSION

Vagif M. Abbasov, Aydan A. Kangarli, Rufat E. Azizov, Nizami I. Mursalov, Durna B. Aghamaliyeva, Lala M. Afandiyeva, Saida F. Akhmedbayova 443

COMPUTATIONAL BINDING STUDIES AND BIOACTIVITY EVALUATION FOR CERTAIN SCHIFF BASE METAL-COMPLEXES TRANSFORMED FROM CIPROFLOXACIN

Ahmad D. Al-Obedi, Khansaa Sh. Al-Nama 449