

## CONTENTS

## 2026 no. 4 (24)

<b>SYNTHESIS OF NANOCOMPOSITE MATERIALS BASED ON TiO<sub>2</sub> NANOTUBES AND POLYMETHYLENE NAPHTHYLENE SULFONATE AND THEIR ELECTROPHYSICAL PROPERTIES</b> <i>Sh. Djumagulov, B. Umarov, A. Khamidov, O. Ruzimuradov, A. Kenjaev</i>	515
<b>SYNTHESIS, CHARACTERIZATION AND STUDY OF THE ANTIBACTERIAL AND ANTIOXIDANT ACTIVITY OF Cu(II) and Cd(II) COMPLEXES USING MANNICH BASES AND PHOSPHINATES (dppe, dppp) AS LIGANDS</b> <i>A.H. Hamad Al_Mofrajy, A.S. Shihab</i>	525
<b>THERMODYNAMIC INVESTIGATION OF THE Ag<sub>7</sub>GeSe<sub>5</sub>I COMPOUND AND Ag<sub>8-x</sub>GeSe<sub>6-x</sub>I<sub>x</sub> SOLID SOLUTIONS BY THE EMF METHOD WITH SOLID ELECTROLYTE</b> <i>N.A. Bayramova, I.F. Huseynova, G.B. Balakishiyeva, I.J. Alverdiyev, T.A. Aliyev</i>	540
<b>CHARACTERIZATION OF MANGANESE-CONTAINING Co-W COATINGS ELECTRODEPOSITED FROM ELECTROLYTES WITH VARIOUS ORGANIC COMPLEXING AGENTS</b> <i>G. Tsurtsumia, N. Nioradze, T. Lezhava, N. Koiava, P. Nikoleishvili, N. Jokhadze, R. Kurtanidze, G. Gorelishvili, B. Godibadze</i>	553
<b>DESIGN, CHARACTERISATION, MOLECULAR DOCKING, AND CYTOTOXICITY STUDY OF NEW 5-PHENYL-4H-1,2,4-TRIAZOLE-3-THIOL SCHIFF BASES DERIVATIVES</b> <i>Maiham M. Abdulridha, Bassam A. Hassan, Farqad M. Baqer</i>	570
<b>EXTRACTIVE SPECTROPHOTOMETRIC DETERMINATION OF MICROAMOUNTS OF Fe(III) IN WATER SAMPLES USING A NOVEL PYRAZOLIDINYL-BASED REAGENT</b> <i>E.J. Eyyubova, E.H. Aliyev, K.J. Nagiyev, F.M. Chyragov</i>	582
<b>EFFICIENT SYNTHESIS OF N-PHENYLBENZAMIDES VIA AMIDATION OF VINYL ESTERS OF AROMATIC CARBOXYLIC ACIDS WITH ANILINE</b> <i>M.E. Ziyadullaev, Sh.Sh. Tursunov, A.B. Parmanov, S.E. Nurmanov, J.U. Abdullaev, S.S. Abduraxmanova, Kh.S. Toshov, F.J. Abduxaliqov, G.S. Khudiyarova, Kh.B. Musaev</i>	591
<b>PREPARATION AND CHARACTERIZATION OF INDOLE-3-CARBALDEHYDE-DERIVED PYRAZOLINE DERIVATIVES AND EVALUATION OF BIOLOGICAL EFFICACY</b> <i>J.H. Saleh, M.G. Abdulkarim</i>	599
<b>RESEARCH OF THE CHEMICAL COMPOSITION OF GRAPE OIL OBTAINED FROM THE EXTRACTION PROCESS WITH THE PARTICIPATION OF VARIOUS SOLVENTS</b> <i>G.S. Mukhtarova, A.B. Suleymanova</i>	609
<b>NANO-STRUCTURED VERMICULITE CLAY FOR HIGH-PERFORMANCE ADSORPTION OF MALACHITE GREEN DYE: STRUCTURAL CHARACTERIZATION AND REGENERATION POTENTIAL</b> <i>Aseel M. Aljeboree, Ali Fawzi Al-Hussainy, Usama S. Altimari, Shaima Abd, Zainab A. Alhassan, Ayad F. Alkaim</i>	619
<b>CREATING THEORETICAL AND PRACTICAL FOUNDATIONS FOR OBTAINING AN ANION EXCHANGER BASED ON PVC AND PVAm</b> <i>F.M. Yusupov, Y.R. Yakhshiyeva, S.K. Yusupov, S.U. Khalilov, R. Yoldashev, G.B. Temirov, D.Z. Nuriddinova</i>	635
<b>SYNTHESIS AND CHARACTERIZATION OF POLYPYRROLE FOR BIODETECTION</b> <i>A.M. Abdullah, I.J. Ibraheem</i>	645
<b>SYNTHESIS, STRUCTURE AND PROPERTIES OF Zn(II) AND Cd(II) COMPLEXES WITH (E)-N'-(5-Br-2-HYDROXYBENZYLIDENE)-NICOTINOHYDRAZIDE (HL)</b> <i>P.A. Fatullayeva, A.A. Medjidov, A.T. Alirzayev, R.A. Jafarova, D.B. Tagiyev, R.H. Ismayilov, S.R. Mammadova</i>	651
<b>SPECTROPHOTOMETRIC DETERMINATION OF DOXORUBICIN HYDROCHLORIDE USING CHARGE TRANSFER COMPLEXES REACTION</b> <i>Tabarak A. Abdulwahd, Omar A. Sheej Ahmad</i>	660
<b>DEVELOPMENT OF ECO-SAFE AND LOW-EXPLOSIVE FERTILIZER BY MODIFYING AMMONIUM NITRATE WITH MAGNESIUM-CONTAINING MINERALS TO IMPROVE ITS THERMOCHEMICAL STABILITY</b> <i>S.A. Buriyev, A.A. Mamataliyev, Sh.S. Namazov, J.M. Kushokov, G.B. Bekjanova</i>	670