

**CONTENT**

p.

**REVIEWS**

|                                                                                                                                                          |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| USE OF INTENSITY OF THE X-RAY RADIATION DISSEMINATED BY SUBSTANCE IN PRACTICE OF X-RAY FLUORESCENT ANALYSIS<br>A.L. Tsvetyanskii and A.N. Eritenko ..... | 4 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---|

**DEVICES AND METHODS OF CONTROL**

|                                                                                                                                                                                                                           |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| DEVELOPMENT OF TECHNIQUE FOR THE DETERMINATION OF Ta CONCENTRATION IN ROCKS OF DIFFERENT COMPOSITION BY X-RAY FLUORESCENCE<br>D.S. Suvorova, E.V. Khudonogova, A.G. Revenko .....                                         | 23  |
| ESTIMATION OF THE POSSIBILITY OF GAMMA SPECTROMETRIC METHODS FOR OPERATIONAL CONTINUOUS MONITORING OF URANIUM IN SOLUTIONS<br>E.I. Denisov, A.A. Pulin .....                                                              | 31  |
| ESTIMATION OF THE OPTIMAL PARAMETERS OF MULTI-ELEMENT SOLID-STATE DETECTORS FOR ATOMIC EMISSION SPECTRAL SCINTILLATION ANALYSIS<br>S. A. Babin and Labusov .....                                                          | 40  |
| SPUTTERING CHARACTERISTICS DETERMINATION OF Ni-P ELECTROLYTIC COATING BY GLOW DISCHARGE ATOMIC-EMISSION SPECTROMETER GDS 850 A<br>A.L. Chicherskaya, A.A. Pupyshev .....                                                  | 50  |
| IMPROVING ELECTROCHEMICAL METHOD FOR DETERMINATION OF TITRATABLE ORGANIC ACIDS IN WINES AND JUICES<br>O.N. Shelud'ko, N.K. Strizhov, T.V. Guzik .....                                                                     | 58  |
| APPLYING OF SENSORS ARRAY FOR RAPID DETERMINATION OF FREE HIGH VOLATILE COMPONENTS IN STAFF FROM PHENOL-FORMALDEHYDE PLASTICS<br>T.A. Kuchmenko, E.V. Drozdova .....                                                      | 66  |
| ION CHROMATOGRAPHY DETERMINATION OF PERCHLORATE IN DRINKING WATER WITH A PRELIMINARY MICROEXTRACTION CONCENTRATION<br>P.N. Kulikov, E.V. Nayanova, E.V. Elipasheva, G.M. Sergeev .....                                    | 76  |
| ELLIPSOMETRIC CONTROL OF PROTEIN SORPTION ON PLOT-COLUMNS WITH DENDRITIC STATIONARY PHASE<br>V. Potolitsyna, L. Kartsova, E. Bessonova .....                                                                              | 82  |
| THE ACCURACY OF IR-SPECTROMETRIC ESTIMATIONS FOR TOTAL HYDROCARBON CONCENTRATION OF MODEL MIXTURES WITH DIFFERENT METHODS TO MEASURE THE GENERALIZED ANALYTICAL SIGNAL<br>M.A. Fedorova, S.V. Usova, V.I. Vershinin ..... | 91  |
| MICELLAR EXTRACTION OF EASY HYDROLYZED METALS WITH 2,3,7-TRIHYDROXYFLUORONES INTO MODIFIED PHASE OF CETYLPIRIDINIUM CHLORIDE<br>M.G. Mandziuk, S.A. Kulichenko .....                                                      | 99  |
| DETERMINATION OF CHROMIUM(VI) USING 1,5-DIPHENYLCARBAZIDE IMMOBILIZED IN A POLYMETHACRYLATE MATRIX<br>N.V. Saranchina, I.V. Mikheev, N.A. Gavrilenko, M.A. Proskurnin, M.A. Gavrilenko .....                              | 105 |

**INFORMATION**

|                                                                |     |
|----------------------------------------------------------------|-----|
| "X-RAY SPECTROMETRY IN FORENSIC SCIENCE"<br>A.G. Revenko ..... | 112 |
| VIII NATIONAL CONFERENCE ON X-RAY ANALYSIS .....               | 117 |
| RULES FOR AUTORS .....                                         | 118 |