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ДЕРЖАВНИЙ ВИЩИЙ НАВЧАЛЬНИЙ ЗАКЛАД
“ЗАПОРІЗЬКИЙ НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ”
МІНІСТЕРСТВА ОСВІТИ І НАУКИ УКРАЇНИ

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Л.О. ОМЕЛЬЯНЧИК,
Д.С. КОВАЛЕНКО

**ЕЛЕКТРОХІМІЧНІ ТА АНАЛІТИЧНІ
ХАРАКТЕРИСТИКИ ІОНОСЕЛЕКТИВНИХ
ЕЛЕКТРОДІВ, ОБОРОТНИХ ДО БІОЛОГІЧНО
АКТИВНИХ РЕЧОВИН**



ЗАПОРІЖЖЯ
2011

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New film and solid-state plasticized ion selective electrodes (ISE), circulating to biologically active substances, were developed in the monograph. The nature for electrode active substance (EAS), the electrode potential response on the pH for the main electrode characteristics were opened for ion selective electrodes, convertible to organic ions. The choice of optimal countering EAS liquid ISE with membranes, plasticized solvents different polarity, woe explained. Detected correlations were found. Noneffect matrix on membrane selectivity ISE was proved. The influence of ISE design on its electrochemical and analytical characteristics were found at first.

Rule of influence of ionic association of determination and interfering ions with anions of ion exchangers on membrane potential and ISE potentiometric selectivity has been investigated. Ways for enrichment selectivity ISE, that based on the use of the effect of ion association, were explored.

It designs for analytical chemists in research institutes, stations of agriculture chemicals, sanitary - epidemiological stations, chemistry teachers in higher education."

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| | | |
|------|-------|-----|
| pH | | 86 |
| 3.5. | | 88 |
| 3.5. | | 94 |
| 3.7. | | 98 |
| 4. | | 102 |
| | | 102 |
| 4.1. | | 103 |
| 4.2. | | 107 |
| | | 107 |
| 4.3. | | 109 |
| 4.4. | | 116 |
| | | 116 |
| 5. | | 126 |
| | | 126 |
| 5.1. | | 127 |
| 5.2. | | 130 |
| | | 130 |
| 5.3. | | 139 |
| 5.4. | | 144 |
| 5.5. | | 147 |

| | | | | | |
|--------|---------|---|-------|---------|-----------|
| 5.6 | | | | | |
| | , | | 3-(5- | -1,2,4- | [4,3-] |
| |)- | | | | 153 |
| 5.6.1 | pH | | | | 157 |
| 5.6.2 | | | | | 157 |
| 5.6.3 | | | | | 161 |
| 5.7 | | | | | |
| | , | | 3-(5- | - | |
| 1,2,4- | [4,3-] |) | | | 162 |
| | | | | | 173 |
| | | | | | 175 |
| | | | | | 200 |