



Volume 80, Issue 3

March 2025

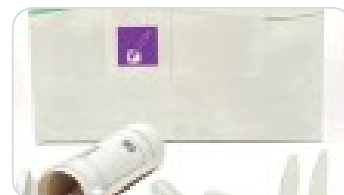


16 articles in this issue

## **Chemical Analysis on the Way to a Mass Consumer: Solutions for Food Quality Control**

V. V. Apyari Yu. A. Zolotov T. I. Tikhomirova

**REVIEWS** | 06 May 2025 | Pages: 385 - 401



## **Room-Temperature Phosphorescence of Organic Compounds in Diverse Supramolecular Matrix Systems**

G. I. Romanovskaya

**REVIEWS** | 06 May 2025 | Pages: 402 - 410



## **Detection of Explosives: A Comparison of Analytical and Operational Characteristics of Mass Spectrometers and Ion Mobility Spectrometers**

T. I. Buryakov I. A. Buryakov

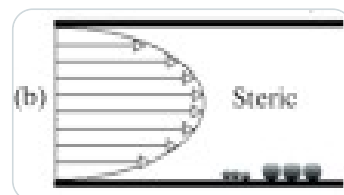
**REVIEWS** | 06 May 2025 | Pages: 411 - 422



## **Unified Theoretical and Experimental Bases of Micro-Thermal Field-Flow Fractionation**

J. Jančal A. Ananieva

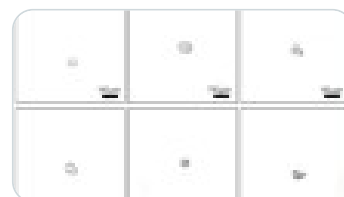
**REVIEWS** | 06 May 2025 | Pages: 423 - 431



## **Extraction of Microplastics from River Water in a Rotating Coiled Column Using a Water–Oil System**

M. S. Ermolin A. I. Ivaneev R. Kh. Dzhenloda

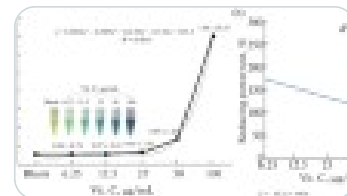
**ARTICLES** | 06 May 2025 | Pages: 432 - 441



### **Application of Smartphones to Measurements of Reducing Power Related to Antioxidant Activity**

Si Eon LeeChang Soon Huh

ARTICLES | 06 May 2025 | Pages: 442 - 447



## **High-Throughput Determination of Trace-Level Peroxides in Reagents and Packaging Materials Based on a Simple 96-Well Plate Ultraviolet Spectrometric Method**

Danyi YangJingwei LanJiangbin Han

ARTICLES | 06 May 2025 | Pages: 448 - 454



# **Exploring Inter-Sample Variability of Malaysian Gasoline Using Attenuated Total Reflectance-Fourier Transform Infrared Spectroscopy and Multivariate Exploratory Methods for Forensic Investigation**

Wan Nurdini Wan Mohd HassimWooi Meng YewLoong Chuen Lee

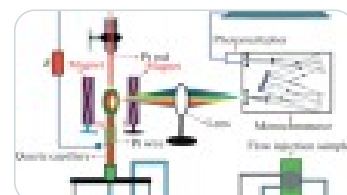
ARTICLES | 06 May 2025 | Pages: 455 - 466



## Determination of Cadmium and Zinc in Soil Samples Using Magnetic Field-Assisted Solution Cathode Glow Discharge

Quanfang LuXiaoxia HaoXuehe Li

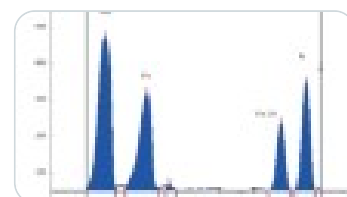
ARTICLES | 06 May 2025 | Pages: 467 - 479



## Sustainable Thin-Layer Chromatographic Method for the Determination of Ipriflavone and Vitamins in Bone Health Supplements

Sara Abdel Basset GalalEman Saad ElzanfalyHala Elsayed Zaazaa

ARTICLES | 06 May 2025 | Pages: 480 - 489



# **Eco-Friendly Method for the Determination of Lanreotide in Human Plasma Using Ultra-High-Performance Liquid Chromatography-Tandem Mass Spectrometry: Assessment of Greenness using the Analytical Greenness Metric Tool, Analytical Eco-Scale, and Green Analytical Procedure Index**

Priyanka A. ShahPrimal SharmaPranav S. Shrivastav

ARTICLES | 06 May 2025 | Pages: 490 - 500



---

## **Determination of Volatile Components in Various Extracts of Wild Chamomile (*Matricaria chamomilla* L.) Flowers by Gas Chromatography–Mass Spectrometry**

Z. A. TemerdashevT. K. ChubukinaN. V. Kiseleva

**ARTICLES** | 06 May 2025 | Pages: 501 - 514

---

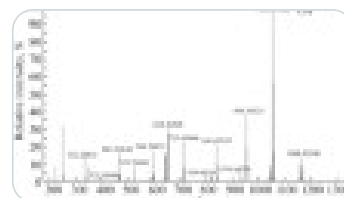


## **Study of the Effect of X-Ray Radiation on the Structural Characteristics of Bovine Serum Albumin Protein Using High-Resolution Liquid Chromatography–Mass Spectrometry**

A. V. BrownU. A. BliznyukI. A. Rodin

**ARTICLES** | 06 May 2025 | Pages: 515 - 525

---

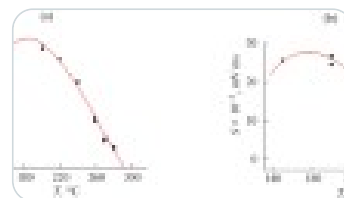


## **Approximation of the Results of Analysis of Thermally Unstable Compounds by Gas Chromatography Using Logistic Regression**

I. G. ZenkevichT. A. Kornilova

**ARTICLES** | 06 May 2025 | Pages: 526 - 539

---

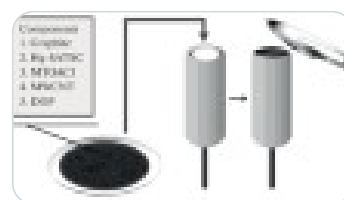


## **All-Solid-State Potentiometric Sensor Based on Carbon Paste Composite for the Selective Determination of Iodide Ions**

Semra YilmazFatih Coldur

**ARTICLES** | 06 May 2025 | Pages: 540 - 552

---



## **Gold Nanoparticles Electrochemically Deposited on Carbon Nanomaterials and Thiocalixarenes in Immunosensors for Determining Tricyclic Antidepressants**

D. V. BrusnitsynA. N. RamazanovaT. L. Khamidullin

**ARTICLES** | 06 May 2025 | Pages: 553 - 563

---

