

CONTENTS

MATHEMATICS

*Number theory:*

1. *Vassil Grozdanov, Elmi Shabani.* Multidimensional Quasi-Monte Carlo Integration in Weighted Anchored Sobolev Spaces ..... p.1743

*Fuzzy sets and logic:*

2. *Krassimir T. Atanassov, Janusz Kacprzyk.* Bipolar Fuzzy Sets Are Intuitionistic Fuzzy Sets ..... p.1752

CHEMISTRY

*Physical chemistry and theoretical chemistry:*

3. *Paunka Vassileva, Ivan Uzunov, Dimitrinka Voykova, Ignat Ignatov.* Removal of Reactive Blue 13 Using Modified Cellulosic Material Based on Rice Husks .... p.1757

*Kinetics and catalysis:*

4. *Katerina Zaharieva, Maria Shipochka, Silvia Dimova, Irina Stambolova, Sasho Vassilev.* New Developed (Ag)-La<sub>2</sub>O<sub>3</sub>-Ce<sub>4</sub>O<sub>7</sub>-ZnO Photocatalytic Active Composites for Textile Dyes Degradation ..... p.1767

*Ecology:*

5. *Desislava Sopotlieva, Nikolay Velev, Tsvetelina Terziyska, Iva Apostolova.*

Mountain Wetland Vegetation Changes for Thirteen Years in Vitosha Mountain (Bulgaria) ..... p.1776

ENGINEERING SCIENCES

*Theory of elasticity:*

6. *Deyan Veselinov, Hristo Skulev.* Effect of Torsion on the Corrosion Resistance of Nanotubular Anodized Spiral Plates for Femoral Fracture Fixation ..... p.1784

*Digital signal processing:*

7. *Desislava Baeva, Galina Ivanova.* LLM Logical Reasoning Related to Aesthetic Universals ..... p.1792

*Security systems:*

8. *Valeri Panevski.* Critical Infrastructure Resilience Assessment as a Source of Requirements for the Security Systems Development ..... p.1801

MEDICINE

*Medical genetics:*

9. *Victoria Spasova, Zora Hammoudeh, Olga Antonova, Liliya Koleva, Draga Toncheva, Savina Hadjidekova, Anatoli Kolev, Diana Hristova, Ventsisava Pencheva, Stanislava Hitrova, Manol Sokolov, Dejan Korunoski, Valentina Petkova, Milen Dimitrov, Silvia Nikolova, Vesela Karamisheva.*

Circulating miRNAs – a Potential Non-invasive Biomarker for Diagnosis of Endometriosis ..... p.1808

*Oncology:*

10. *Fatih Özcan, Bilge Özcan.* Awareness of Radiation Oncologists Regarding Oral Evaluation of Patients before Radiotherapy: Survey Study ..... p.1817

11. *Petar Uchikov, Milena Sandeva, Veselin Popov, Silvia Tsvetkova, Dzhevdet Chakarov, Silviya Genova, Maria Kraeva.* Analysis of Estrogen Receptor Alpha (ER $\alpha$ ) Expression and Epidermal Growth Factor Receptor (EGFR) Mutation and Their Relationship with Hormonal and Menstrual Factors in Women with Lung Adenocarcinoma ..... p.1827

*Clinical medicine:*

12. *Iviana Yovchevska, Alexandar Trenovski, Martin Georgiev, Radka Tafra-džijska-Hadjiolova, Mariya Dragomirova, Plamen Yovchevski.* Age Dependence of Prognostic Significance of Complete Blood Count Parameters on Mortality from COVID-19 ..... p.1834

13. *Boryana Ilieva, Krasimira Prodanova, Vassil Svechtarov.* Study of the Influence of the Duration of Bisphosphonate Intake on the Outcome of Bisphosphonate-associated Osteonecrosis of the Jaws Treatment Using Statistical Method Logistic Regression ..... p.1843

*Experimental medicine:*

14. *Filippos S. Chelmis, Iliana N. Sorotou, Paraskevas E. Pakataridis, Daniela M. Pechlivanova.* The Ameliorative Effects of AT2 Receptor Activation with the Hexapeptide Novokinin on Streptozotocin-induced Model of Alzheimer's Disease in SHR ..... p.1852

*Neuromorphology:*

15. *Andrey Ivanov, Dimitrinka Atanasova, Nikolai Lazarov.* Nitric Oxide Synthase Immunoreactivity in the Rat Spinal Trigeminal Nucleus ..... p.1861

*AGRICULTURAL SCIENCES*

*Plant breeding:*

16. *Diana Marinova, Galina Dyakova, Ralitsa Mincheva.* Breeding Evaluation of Alfalfa (*Medicago sativa* L.) Polycross Progenies by Multivariate Analysis Based on Agro-morphological Traits ..... p.1870

*Soil science:*

17. *Sahib Shukurov Khudaverdi.* Mapping of Soil Salinity in Absheron Soil Based on Sentinel-2 Using LightGBM ... p.1879

*Food and food technology:*

18. *Seval Eliş, Mehmet Yıldırım.* Changes in Quality Components of Durum Wheat Genotypes under Temperature Stress and Sufficient Rainfall Conditions during the Growth Period ..... p.1888