

CONTENTS

MATHEMATICS

Algebraic geometry:

1. *Mikhail Shkolnikov, Peter Petrov.* Introduction to PSL_2 Phase Tropicalization p.1425

CHEMISTRY

Analytical chemistry:

2. *Madlena Lazarova, Dragomir Yankov.* Determination of Polyphenols, Flavonoids and Anthocyanins in Mavrud Wine from the Harmanli Region. Comparison with Other Investigated Mavrud Wines p.1433

BIOLOGY

Botany:

3. *Vladan Djordjević, Svetlana Krdžić, Spyros Tsiftsis.* × *Gymnigritella suaveolens* (Orchidaceae), a New Natural Hybrid to the Flora of Serbia p.1440

Microbiology:

4. *Boyanka Angelova, Mihail Iliev.* Metagenomic Analysis of Microbial Diversity in the Urban Air of Sofia (Bulgaria) during Spring and Winter p.1449
5. *Velichka Spasova-Apostolova, Mariana Petkova.* Molecular Identification and Scar Detection of Entomopathogenic Fungi of the Genus *Beauveria* p.1458

Forestry:

6. *Roza Mammadova Nazim, Afat Mammadova Oqtay.* Study of Bio-ecological Indicators of Oak Species in Azerbaijan p.1466

GEOLOGY

Mineralogy:

7. *Sylvina Georgieva, Rossitsa D. Vasileva, Valentin Grozdev, Georgi Milenkov, Jan Cempírek, Radek Škoda, Elitsa Stefanova.* Incompatible Elements (REE, Th, U, Nb, Ta, Ti) Mineral Association in Altered Pegmatite from the Djurkovo Pb-Zn Deposit, Central Rhodopes: Occurrence and Geochemical Properties p.1474

SPACE SCIENCES

Space physics:

8. *Rumiana Bojilova.* First Results for the Influence of Two Geomagnetic Storms during 10–12 May 2024 On Mid-latitude Ionosphere p.1485

Spacecraft technology:

9. *Petar Getsov.* Determination of International Space Station Orbit Correction Fuel Consumption with Progress Ship p.1493

ENGINEERING SCIENCES

Materials science:

10. *Deyan Veselinov, Radostina Yankova, Hristo Skulev, Izabella Kwiecień, Joanna Wojewoda-Budka.* Fabrication and Characterization of Advanced Selective Plated Copper Coatings Incorporating Nanosized Particles of ZnO and TiO₂ p.1498

Automatics and informatics:

11. *Dinko Stoykov.* Integrating Virtual Reality and Colour Psychology in the Design of Small Liveable Spaces p.1509

MEDICINE

Medical genetics:

12. *Maya Atanasoska, Radoslava Vazharova, Anna Popova, Veselin Kuken-ski, Lubomir Balabanski, Silvia Andonova, Alexey Savov, Draga Toncheva.* Mutational and Clinical Spectrum of the PAX6 Gene in Bulgarian Patients with Aniridia p.1521

Clinical medicine:

13. *Petar Antonov, Plamen Krastev, Gabriela Raycheva, Atanas Ivanov, Veselin Popov, Eleonora Hristova, Aleksander Timev.* The Value of Elastography in the Detection of Prostate Cancer – Clinical Experience p.1529

14. *Svetoslav Iovev, Milena Staneva, Peyo Simeonov, Nezabravka Chilingirova.* Why Is the Group of Non-responders to Cardiac Resynchronization Therapy so Large? Some Ethical and Medical Aspects of the Topic p.1535

15. *Aicha Zaralieva, Assen Aleksiev, Stoika Radeva.* Role and Impact of Prophy-lactic Interventions in the Conserva-tive Treatment of Carpal Tunnel Syn-drome p.1541

16. *Radoil Simeonov, Stefan Tserovski, Panayot P. Tanchev, Todor Bogdanov, Pla-men Kinov.* 3D Model Simulation in Preop-erative Planning of Complex and Revision Hip Replacement p.1550

Neurology:

17. *Antonia Nikolova, Ivan Milanov, Ksenia Kmetska.* Clinical and Epidemio-logical Study of Multiple Sclerosis in Svoge and Troyan p.1560

AGRICULTURAL SCIENCES

Plant breeding:

18. *Biljana Kovacevik, Sasa Mitrev, Emilija Arsov, Natalija Markova Ruzdik, Daniela Todevska.* Determination and Quantification of Folpet in Barley Using HPLC-DAD Analysis p.1567