

TUESDAY 20. 05. 2025.

1. Ivan Radović, Effective dielectric function of a van der Waals heterostructure made of two-dimensional materials separated by insulating layers
2. Lenka Filipovic, Exploring Electrical and Optical Properties: 2D GaS 1T vs 2H
3. Tea Belojica, Raman Signatures of Instabilities in InSiTe<sub>3</sub>
4. Jovan Blagojević, Raman Spectroscopy Analysis Of Disorder Effects In 2H-TaSe<sub>2-x</sub>S<sub>x</sub> Alloys
5. Anja Pogačnik Krajnc, O<sub>2</sub> plasma modification of MoS<sub>2</sub> nanotubes for photocatalytic degradation of organic water pollutants
6. Suzana Miladic, Transport Regimes of Holstein Polaron
7. Petar Brinić, OQCET: Open Quantum Cluster Embedding Theory
8. Martina Gilic, Beyond Perfection: Lattice Defects and Light Manipulation in Diatom Frustules
9. Dušica Jovanović, DFT Study of Glutamine (L) Interactions with Pristine and Au / Ag / Cu Doped TiO<sub>2</sub> Surfaces: Energy Landscape and Potential Biomedical Applications
10. Natalija Milojković, Modified Z-scheme Heterojunction of Polypyrrole/TiO<sub>2</sub>: A Recyclable Photocatalyst for Azo Dyes Removal
11. Uroš Čakar, Precise Control of Structure and Magnetic Properties of BiFeO<sub>3</sub>: From Synthesis to Prediction of New Modifications
12. Zorica Lazarević, Structural, Morphological and Optical Properties of Er<sup>3+</sup>-Doped BaTiO<sub>3</sub> Ceramics
13. Jovana Aćimović, Predicting Polymer–Drug Interactions Using Hansen Solubility Parameters: A Study on SSRIs
14. Tamara Kukolj, Diversification of Primary Mesenchymal Stromal/Stem Cell Populations at the Single-Cell Level Using Raman Spectroscopy
15. Mirjana Grujić Brojčin, Decoding the Pigments of the Past: Raman Spectroscopy on Historical Banknotes
16. Tijana Milićević, Saturation Isothermal Remanent Magnetization of Grapevine Leaves as a Proxy for Environmental Pollution
17. Vladimir Dodevski, Obtaining activated carbon materials from almond and walnut shells and their application
18. Vesna Miljić, Antibacterial activity of visible light-driven photocatalytic nanocomposite suspension
19. Nikola Starcevic, Crystalline Structure Analysis via Channeling Rainbow Scattering
20. Cormac McGuinness, Neutrons and Photons Elevating Worldwide Science (NEPHEWS) – Trans-National Access For Excellent Curiosity Driven Research
21. Bratislav Marinkovic, ESUO-Serbia Section of Optical Society: Ten Years of Activities

THURSDAY 22. 05. 2025.

1. Nikola Nešković, Topological pairing of composite fermions in FQHE systems
2. Nikola Nešković, Topological origin of superconductivity in twisted bilayer WSe<sub>2</sub>
3. Upendra Kumar, Modeling Critical Temperature in Hg-based Cuprates Superconducting Material Using Multi-Property Descriptors
4. Ayan Khasiyeva, Electronic and Vibrational Properties of Iron-Doped Talc - Magnetic 2D Natural Material
5. Milena Rosić, Spectroscopic and Morphological Properties of Co<sub>0.9</sub>Gd<sub>0.1</sub>MoO<sub>4</sub> Nanopowders
6. Dragana Jordanov, Structural and Electronic Properties of Y<sub>2</sub>O<sub>2</sub>S: A Theoretical Assessment and Predictions
7. Katharina Burgholzer, A study of oxidized MoS<sub>2</sub>
8. Ana Kanjevac, Symmetry-Resolved Raman Study of Temperature-Induced Phonon Anomalies in ZrTe<sub>5</sub>
9. Maria Čebela, Spin-Lattice Coupling and Multiferroic Modulation in Ho-Doped BiFeO<sub>3</sub>: An Experimental and Theoretical Study
10. Jeremija Kovačević, Towards numerically exact computation of conductivity in the thermodynamic limit of interacting lattice models
11. Nikolina Penić, Murunskite: A Novel Platform for High-Tc Superconductivity Research with Intrinsic Magnetic Nanodomains
12. Milan Jocić, Temperature and shape dependent band gap for halide perovskite nanocrystals
13. Barbara Bekić, Effects of Exfoliation Parameters and Relative Humidity on the Structure of Kaolinite Nanoplates
14. Nerita Žmuidzinašienė, Corrosion of Mn Coatings in a Salt Spray Chamber
15. Neringa Petrašauskienė, Investigation of Cu<sub>x</sub>S layers on polymers surface by SEM and RAMAN
16. Marko Spasenović, Ambient Dependence of Electrical Properties in Scalable Graphene-based Materials
17. Danijela Danilović, The Electronic Structure of Ag-Bi-S-I Nanomaterials Studied by X-ray Aerosol Photoelectron Spectroscopy
18. Ena Todorović, Theoretical Prediction and Experimental Validation of Temperature-Dependent Raman Spectra of Doxorubicin
19. Darija Obradović, Computational Assessment of Polymer-Based Drug Delivery
20. Dušan Milojkov, Luminomagnetic Fe<sub>3</sub>O<sub>4</sub> Nanostructures for Biomedical Application: Synthesis, Characterization, and Antibacterial Properties
21. Kristina Kantminienė, Synthesis and Quantum Chemistry Evaluation of Hydrazones Bearing 5-Oxo-1-(4-(phenylamino)phenyl)pyrrolidine Moiety
22. V. Lojpur, SrGd<sub>2</sub>O<sub>4</sub>: Yb, Tm as Electrode Material for High Energy Density Electrochemical Supercapacitors