

POSTER SESSION: 17 JULY 2025

16.00 – 18.30 h

P1. Characterization of a hydrosensitive copolymer nanosized coatings for applications as active media in optical humidity sensing

Katerina Lazarova, Ketrin Pavlova, Martina Docheva, Silvia Bozhilova, Darinka Christova and Tsvetanka Babeva

P2. Design of a Novel Optical System Integrating a Holographic Quarter-Wave Plate for Laser Tracking Interferometer

Yu-Ta Chen, Fan-Hsi Hsu, Ting-Han Chen, Hung-Yu Chen

P3. High speed impact testing of composites with dynamic speckle analysis

Mikhail Levchenko, Elena Stoykova, Andrei Anisimov

P4. Biospeckle Analysis of pea seed germination using SS-OCT images following Hydro- and Carbon Nanotube Priming

Maryam Viqar, Violeta Madjarova, Elena Stoykova, Keehoon Hong

P5. Optimization of brilliant yellow thin films deposition for optical recording using poly(vinyl alcohol) and polyethylene glycol matrices

B. Blagoeva, L. Nedelchev, D. Nazarova, D. Dimov, E. Stoykova

P6. Speckle excitation by tensile loading for laser photometric defect detection

Branimir Ivanov, Elena Stoykova, Violeta Madjarova, Ginka Ivanova, Keehoon Hong

P7. Influence of Perchloroethylene treatment on the electrochemical behavior of household chimney soot for application as supercapacitor material

M. Petrov, T. Stankulov, L. Slavov, B. Karamanova, A Stoyanova

P8. Direct Detection of Faraday Phase Shift in Magneto-Optical Materials

Petar Kolev, Tinko Eftimov, Evdokiya Hikova, Petar Veselinov, Hristo Kisov and Georgi Dyankov

P9. Recording of polarization gratings through digital polarization holography on azopolymer thin films

Nataliya Berberova-Buhova, Georgi Mateev, Branimir Ivanov, Lian Nedelchev, Elena Stoykova, Kristina Borisova, Aleksandra Antonova, Dimana Nazarova

P10. Synthesis and Comprehensive Characterization of Submicron Tubular Inorganic Fibers for Gas Sensing Applications

B. Georgieva, B. S. Blagoev, K. Starbova, N. Starbov, K. Buchkov, V. Mehandzhiev, A. Paskaleva, D. Spasov, L. Slavov, I. Avramova, P. Tzvetkov

P11. Nanocomposite polymer electrolytes for dielectric applications: The effect of Graphene Oxide nanofiller

Todor E. Vlahov, Georgi B. Hadjichristov, Angel D. Dimitrov, Yordan G. Marinov

P12. Nano-thin phospholipid Langmuir-Blodgett monolayer as a component in an impedimetric microdetector for Cadmium ions

Todor E. Vlahov, Georgi B. Hadjichristov, George R. Ivanov, Yordan G. Marinov

P13. Epoxy composites with organoclay – structure and mechanical properties

Verislav Angelov

P14. Al-doped ZnO nanolayers for electro-optical applications

Stefani Bogoeva, Dimitrina Petrova, Vladimira Videva, Vera Marinova and Dimitre Dimitrov

P15. Antibacterial activity of ZnO and Al doped ZnO nanocoatings

Maria Stefanova, Dimitrina Petrova, Vladimira Videva, Dimitre Dimitrov, Nadia Todorova and Vera Marinova

P16. 2D van der Waals heterostructures: synthesis and characterization

Mila Krumova, Maria Martinova, Nikolay Minev, Blagovest Napoleonov, Vladimira Videva, Dimitre Dimitrov and Vera Marinova

P17. Synthesis of 2D WSe₂ Nanolayers via Ultraviolet/Ozone Pre-deposition Treatment

Vladimira Videva, Veronika Todorova, Irnik Dionisiev, DimitreDimitrov, Peter Rafailov, Velichka Strijkova, Ivalina Avramova and Vera Marinova

P18. Effect of UV-Ozone treatment on the optical and electrical properties of AZO thin films

D. Petrova, M. Stefanova, S. Bogoeva, B. Napoleonov, B. Blagoev, V. Videva, V. Marinova and D. Dimitrov

P19. Investigation of mechanical and optical behavior of graphene/PtSe₂ nanocomposites

Nikolay Minev, Blagovest Napoleonov, Vera Marinova, Tatyana Petrova, Apostol Apostolov