

# LIST OF POSTER PRESENTATIONS



## Topic 1 – Advanced Nanomaterials

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**Michal Čičkan:** Preparation of light conversion materials from aluminosilicate nanoparticles

### P2

**Lenka Pazourková:** Study of interactions between bioapatite from human bone and Ca – deficient hydroxyapatite

### P3\_S

**Julie Smijová:** Comparison of hydrothermal and microwave synthesis of nano-ZnS and their influence on photocatalytic activity

### P4\_S

**Monika Šuteková:** Improving photoactivity of colloidal systems of fluorubine dye and saponite

### P5

**Nikolai Tarasenko:** Laser and discharge plasma assisted synthesis of cobalt doped zinc oxide nanostructures in liquids

### P6

**Věra Valovičová:** Surface properties of smectites fine fractions as precursors of multifunctional composites

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**Jakub Zágora:** Preparation of polylactide nanoparticles by supercritical fluid technology

## Topic 2 – Nanomaterials Characterizations and Devices

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**Ivan Kopal:** The photochemical reactions of 4-aminobenzenethiol on the plasmonic nanostructured surfaces

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**Alexey Rezvan:** Local anodic oxidation of silicon for crossbar architecture

### P10\_S

**Denis Tryakhov:** MOCVD growth and study of hybrid heterostructures based on Pd particles and metal phthalocyanines

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**Maria Volkova:** The optical and electrophysical properties of Al-ZnO thin films

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**Pravind Yadav:** Controlled deposition of polymer brush films to develop sub 5nm zirconium oxide films by liquid phase ion inclusion

## **Topic 3 – Nanotech for Energy**

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**Alexandra Starnikova:** *The use of rapid thermal annealing for the formation of cobalt oxide films*

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**Liliya Batyuk:** *Study of UDD under experimental carcinogenesis*

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**Josef Jampílek:** *The use of different silica gel RP-TLC plates for the determination the lipophilicity parameters of metformin and phenformin*

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**Nikita Salavatov:** *Gold nanorods with organosilica shell as potential dual-therapeutic agents*

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**Kateřina Škrlová:** *Biodegradable polymeric materials with antimicrobial effects suitable for medical applications*

## **P18\_S**

**Joanna Trzcinska-Wencel:** *Green synthesized silver nanoparticles: antibacterial activity, biocompatibility, and analyses of surface-attached proteins*

## **P19\_S**

**Zuzana Vilamová:** *Ag nanoparticles fixation on polycaprolactone-polyvinyl alcohol membrane and biocompatibility evaluation study*

## **P20**

**Magdalena Wypij:** *Mechanistic insights onto the synergetic effects of AgNPs and antibiotics*

## **Topic 5 – Nanotech for Environmental Solution**

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**Eva Plevová:** *Sorption study on diclofenac removal using organo-beidellite*

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**Jana Seidlerová:** *Application of sorbents modified by nanoparticles*