



## PROGRAM

of the satellite conference of the project ACCELERATE of H2020 program, which will be held within the School-conference of young scientists  
**«MODERN MATERIALS SCIENCE:  
PHYSICS, CHEMISTRY, TECHNOLOGY»**

### THE UZHGOROD NATIONAL UNIVERSITY IS THE FIRST CERIC's REGIONAL OUTPOST

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### "HORIZON 2020" IS A REAL OPPORTUNITY FOR SELF-REALIZATION FOR YOUNG SCIENTISTS OF UKRAINE

**Tayisiya Symochko**

Head of the National Contact Point of the EU Framework Program for Research and Innovation "Horizon 2020" at UzhNU

### MECHANISM OF INTERACTION OF ADENINE MOLECULES WITH TiO<sub>2</sub> SURFACE

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### ROTATIONAL MAGNETOCALORIC EFFECT - A NEW METHOD OF COOLING

**Karol Flachbart**

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### DEVELOPMENT OF CATALYTIC SYSTEMS FOR HYDROGEN ECONOMY



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**FORMATION OF THE SPACE CHARGE REGION IN CHALCOGENIDE FILMS UNDER ELECTRON IRRADIATION.**

**Feher A.<sup>1</sup>, Shylenko O.<sup>1</sup>, Komanicky V.<sup>1</sup>, Bilanych B.V.<sup>2</sup>,**

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**TECHNOLOGICAL FEATURES OF OBTAINING OPTICALLY PERFECT NANOCOMPOSITE FILM STRUCTURES ON THE BASIS OF BACTERIORHODOPSIN.**

**Korposh S. O.<sup>1</sup>, Trikur I. I.<sup>2</sup>, Sichka M.Y.<sup>2</sup>, Tsoma I. Y.<sup>2</sup>, Rizak V. M.<sup>2</sup>**

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**PRESSURE-INDUCED STRUCTURAL CHANGES IN  $\text{LiKB}_4\text{O}_7$  CRYSTALS: SYNCHROTRON EXPERIMENT AND AB INITIO CALCULATIONS**

**Dubrovinsky L.<sup>1</sup>, Chobal I.<sup>2</sup>, Pakhomova A.<sup>3</sup>, Chobal O.<sup>2</sup>, Simonova D.<sup>1</sup>, Kurnosov A.<sup>1</sup>, Adamiv V.<sup>4</sup>, Rizak V.<sup>2</sup>**

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