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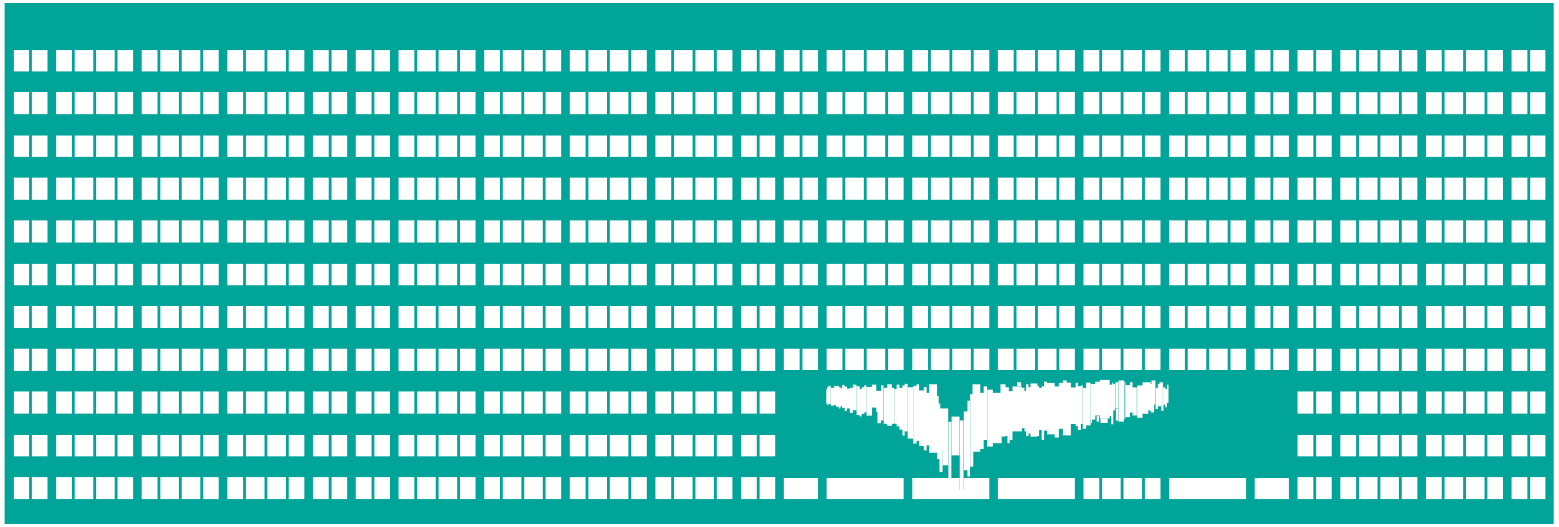

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University Journal Club

Innovative Carbon-based Sorbents as an Efficient Way of Wastewater Treatment

Petra Roupcová

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Who Are We?

Our Team: Laboratory of Environmental Impact Laboratory

- Ing. Petra Roupcová, Ph.D.
- Doc. Ing. et Ing. Karel Klouda, CSc., Ph.D.,MBA
- Ing. Petr Lepík, Ph.D.
- Ing. Jana Suchánková, Ph.D.
- Ing. Jan Slaný

Faculty of Safety Engineering/ Department of Occupational Safety and Processes

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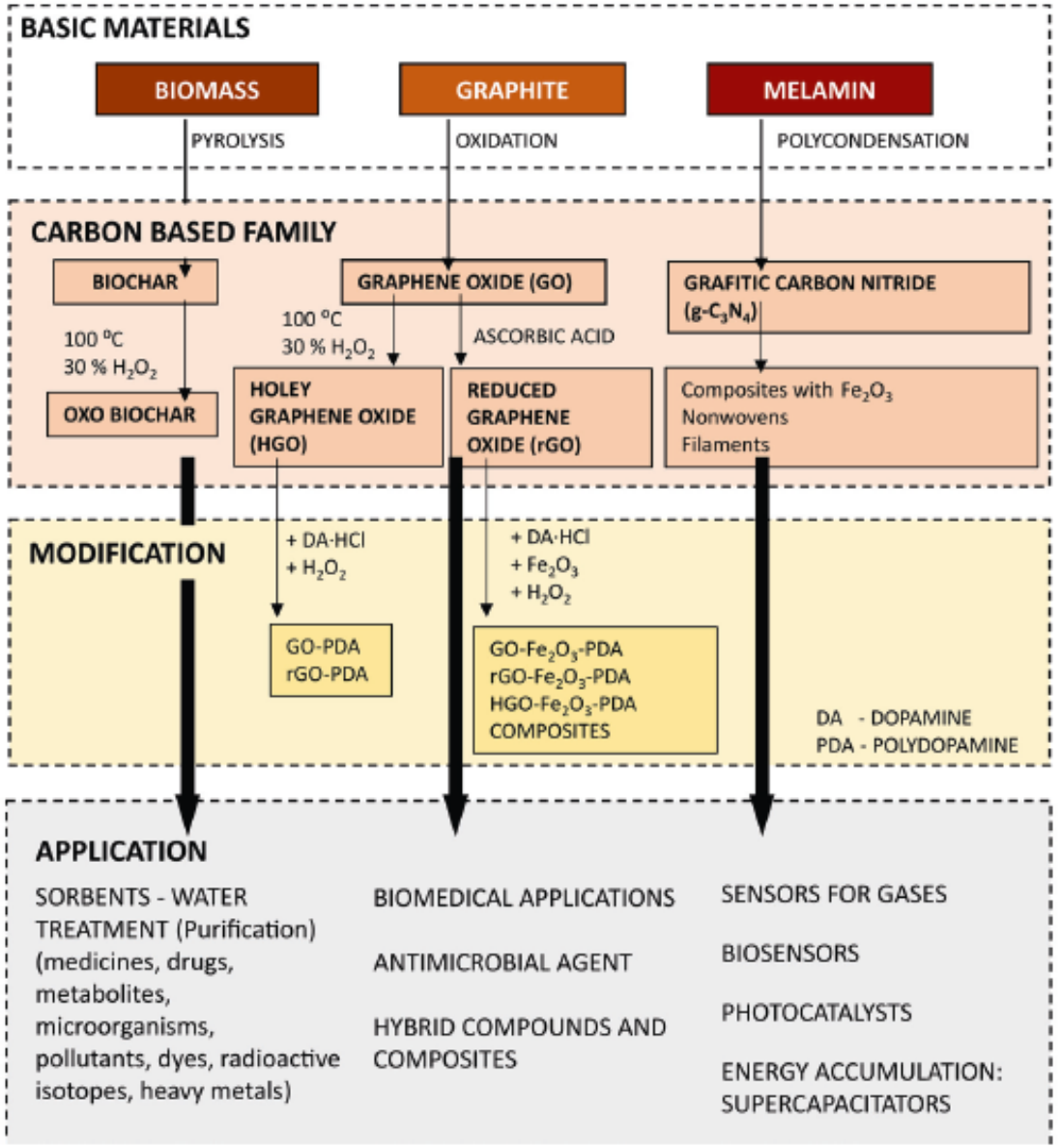
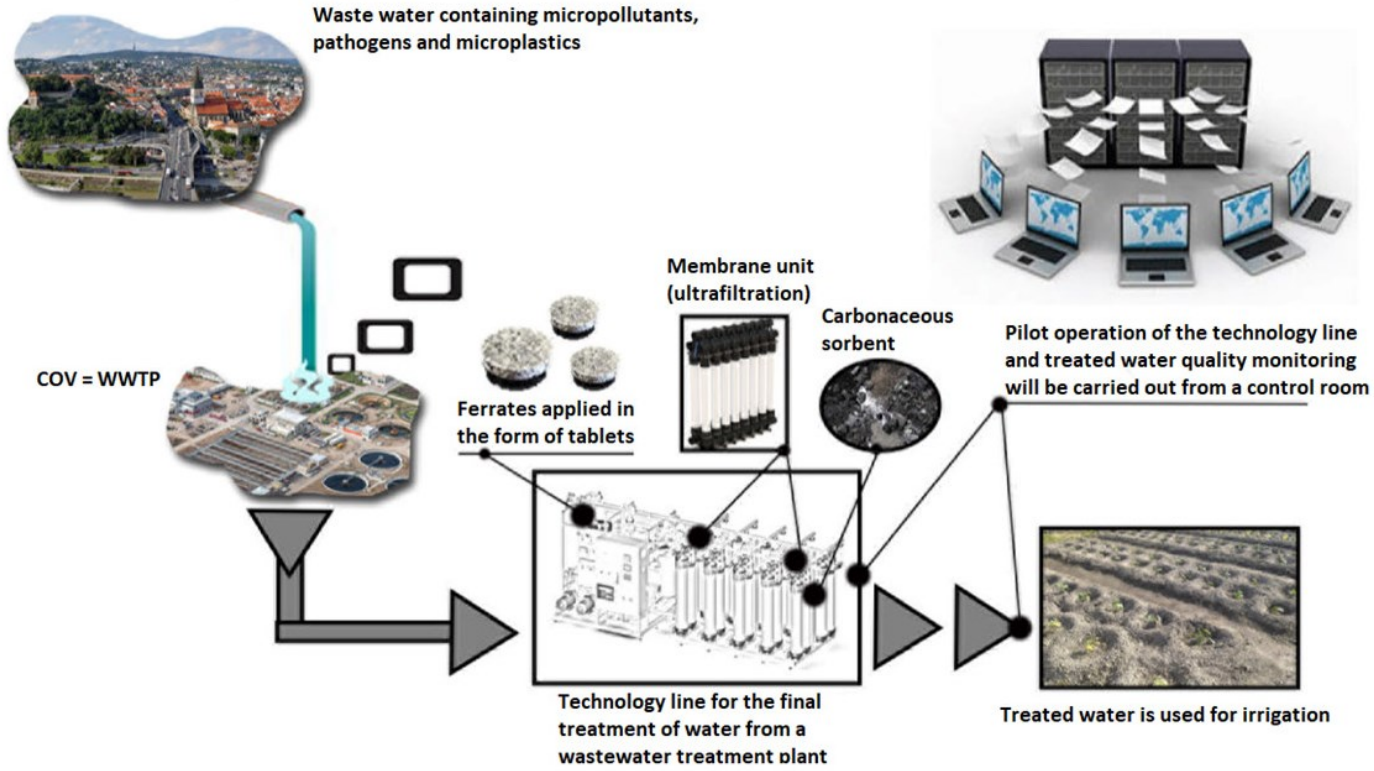
Research Focus



Research Focus of ISBU project



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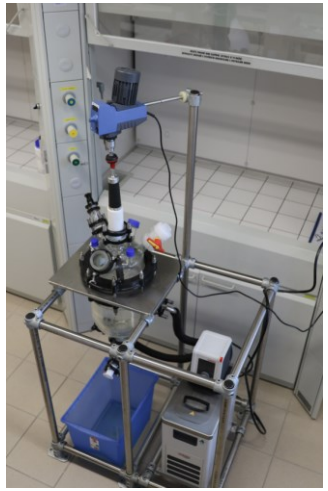
Key Results

- 2 Utility models:

Equipment for the Preparation of Graphene Oxide and Its Modifications

Unit for the Post-Treatment of Wastewater from Pharmaceutically Active Compounds



Project results and all info:

- https://isbu.cz/en/

Current Projects

- ongoing research and interesting outcomes.

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Collaborations

CLOSE partners:

- Centre for energy and environmental technologies- Institute of environmental technology (group of Martina Vráblová)
- Research Institute for Labour and Social Affairs

Current partners (national and international):

- Slovak university of Technology,
- National Institute for NBC Protection,
- Fire Rescue Service,
- University of Lancashire,
- Curtin university,
- Sharjan university,
- Industrial partners: Slovnaft, BorsodChem MCHZ

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What We Seek

- Industrial collaborators for testing materials, processes, and prototypes under real conditions;
- Consortia for European and international funding schemes (e.g., Horizon Europe, Water4All, Key Action 2);
- Openness to cooperation;

What We Offer

- Multidisciplinary research team with strong background in chemistry, materials science, and environmental engineering;
- Long-term cooperation with focus on practical impact and implementation;
- Future directions (sorption for industrial waters, fire waters, desalination, sorption of uranium, ecotoxicity tests of various samples);

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Thank you for your attention

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