



**Belarusian State University
of Informatics and Radioelectronics**

R&D Department

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Investigation of optical properties of bulk, two-dimensional and nanostructured materials

Type of collaboration

research cooperation

Key words

optical, nanostructures,
materials

Goals:

- Investigation of fundamental optical characteristics (complex permittivity ϵ , refractive index n , absorption index k , absorption coefficient α , energy loss function L , reflection coefficient R , transmission coefficient T);
- Investigation dependence of optical characteristics on the presence of point defects in the material;
- Investigation dependence of the optical characteristics on the angle of incidence of light.

Methods:

QM taking into account the spin-orbit coupling, optical constants based on the Kramers-Kronig transformations, macroscopic modeling using Fresnel formulas.

Contacts

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Technology Transfer

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