

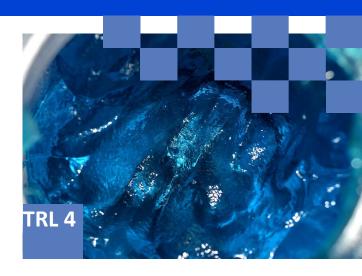
Method of producing carbon layers containing graphene on nanoparticles, in particular quantum dots, containing semiconductor material, and reaction vessel for producing these layers

About the invention

The subject of the invention is a producing method for carbon containing lavers graphene nanoparticles, especially in the form powder and quantum containing at least one semiconductor material, especially oxides composite metal or materials such as semiconductor and/or metal - i.e. semiconductormetal composite.

The invention also relates reaction vessel for producing carbon layers containing graphene on nanoparticles containing at least semiconductor material. in one particular on metal oxides and composite materials.

The reaction vessel containing the reaction chamber according to the invention enables the deposition of a graphene-containing carbon layer on nanoparticles in a fluidised bed using chemical vapour deposition



Applications

- Production of graphenecontaining carbon layers on nanoparticles,
- Possibility of modifying the properties of semiconductor materials.

Authors

Prof. Dr. Adriana Zaleska-Medynska Dr Łukasz Lewandowski

IP protection

The invention is protected by a patent application filed with the Polish Patent OfficeNo. P. 430994.

Possible cooperation

- Licensing agreement
- Transfer of ownership
- Partnership in order to further research or commercialization