

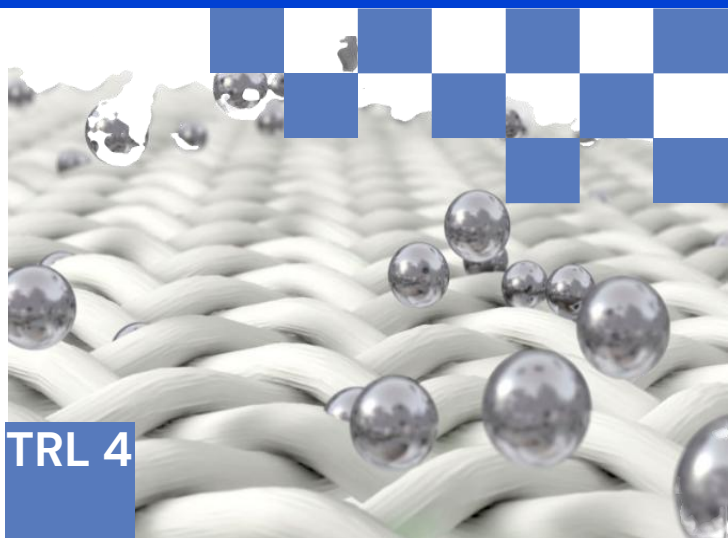
A monocrystalline ruthenium coordination compound

About the invention

The subject of this offer is a new monocrystalline ruthenium coordination compound with the molecular formula $C_9H_3O_{12}Ru$.

The invention also relates to a method of producing this compound and its use as a highly effective sorbent for the capture and storage of carbon dioxide, involving the use of the intermolecular spaces within the material to adsorb gas molecules in environmental protection and chemical engineering processes, whereby this sorbent is capable of full regeneration and can be used reliably on multiple occasions over many successive cycles of carbon dioxide sorption and desorption.

The invention is used in industries seeking high-performance materials with strict structural reproducibility for the selective sorption of greenhouse gases.



TRL 4

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IP protection

The invention is protected by patent application No. **P.457459**, filed with the Polish Patent Office.

Technology readiness level

TRL 4 – Technology validated in laboratory conditions

Possible cooperation

- Licence
- Sale of ownership rights
- Partnership for further research and commercialisation