ANNEX II

| Project reference | Project title | Pre-doctoral grant reference for application |
|---|---|---|
| PID2022-138582OB-I00 | Direct CO2 capture from air with MOF-based nanocomposite thin-film membranes | PRE2023-UZ-09 |

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*Scientific lines of the project in which the thesis would be framed*

1. *Preparation of polymer-based thin film membranes.*
2. *Synthesis of MOF (metal-organic framework) nanoparticles.*
3. *Preparation of nanocomposite thin-film membranes (including MOF in their composition)*
4. *Application of the above membranes to direct CO2 capture from air*
5. *Application of the above membranes to other separations*
6. *Physicochemical characterisation of membranes and membrane materials*