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Horizon2020@recherche.gouv.fr

**Partner search**

**Date (DD-MM-YY)**

* **(\*) Indicate numbers of relevant topics for Green Deal call:**

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| **LC-GD-LC-GD-3-1-2020** **(Closing the industrial carbon cycle to combat climate change)** |

* **Quick description of the project**

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| **(describe the objectives, activities, partners requested and their skills)** |

* **(\*) Do you intend to apply as ? :**

**Coordinator: ~~Yes~~/No**

**Participant: Yes/~~No~~**

**~~(\*) Either Description of the expertise requested (up to 1000 characters) -~~ *~~specify which points of the "expected impact" of the call you are targeting~~***

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| **~~Xxxxxxxxx~~****~~+ key words :~~**  |

**Or Description of the expertise proposed (up to 1000 characters) - *specify which points of the "expected impact" of the call you are targeting***

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| * Synthesis and characterization of advanced heterogeneous catalysts including supported metal nanoparticles or supported singe atom catalysts (SAC).
* Application of these catalysts in the valorization of CO2 in different catalytic processes including: dry reforming of methane (DRM) and tri-reforming of methane (TRM) to produce syngas; CO2-Fisher-Tropsch (directly converting H2 and CO2 to hydrocarbons); CO2-methanation; CO2-methanol synthesis
* Expertise in engineering of highly-stable catalysts for very high temperature processes (> 700 °C);
* Expertise in catalytic reactor design.

**+key words :** Heterogeneous catalysis; catalyst synthesis; catalyst characterization; single-atom-catalyst; reforming; CO2-Fisher-Tropsch;CO2-methanation; CO2-methanol synthesis |

**Organisation information**

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| **Organisation and country:****RAPSODEE research centre, UMR CNRS 5302****IMT Mines Albi****France** |
| **Type of organisation:****□ Enterprise □ SME □ Academic x Research institute □ Public Body □ Other: Association** |
| **Former participation in FP European projects?****□ Yes x No** |
| **Web address:****https://www.imt-mines-albi.fr/rapsodee/** |
| **Description of the organisation:** |

**(\*) Contact details**

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| --- | --- |
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**(\*) –Mandatory**