

## LLM Annotator

### User Prompt

Please help me analyse if there are mentions of the following categories in the provided text. If so, please indicate the answer for the corresponding category as well as the original source from the context.

Context:

Category:

### Context: Abstract

Supported Pt, Ru and Ni (1wt.)catalysts were investigated in the photoreduction of carbon dioxide with hydrogen. These metals appear to be the most active in methanation of carbon

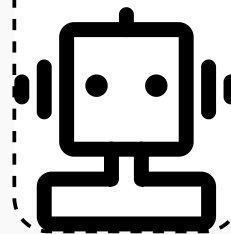
### Category: Range

Catalyst: The catalyst used in the experiment  
Possible Choices: Often a chemical compound

Lamp: The type of lamp used in the experiment.

Possible Choices: Fluorescent, Mercury ...

### GenAI Model



### Annotation\_1

category: "catalyst"

answer: "Pt, Ru and Ni"

source: "Supported Pt, Ru and Ni catalyst..."

annotator: llm

### Annotation\_2

category: "catalyst"

answer: "Pt/TiO2"

source: "...whereas Pt/TiO 2 catalysts ..."

annotator: llm

### Annotation\_3

category: "catalyst"

answer: "TiO2"

source: "... n the experiment was TiO2..."

annotator: llm

### Annotation\_4

category: "light source"

answer: "UV"

source: "The UV source was a PE 175B-10..."

annotator: llm

## Human Evaluation

### Annotation\_1

category: "catalyst"

answer: "Pt, Ru and Ni"

source: "Supported Pt, Ru and Ni catalyst..."

annotator: llm



### Annotation\_2

category: "catalyst"

answer: "Pt/TiO2"

source: "...whereas Pt/TiO 2 catalysts ..."

annotator: llm



### Annotation\_3

category: "catalyst"

answer: "TiO2"

source: "... n the experiment was TiO2..."

annotator: llm



### Annotation\_1

category: "**co\_catalyst**"

answer: "Pt, Ru and Ni"

source: "Supported Pt, Ru and Ni catalyst..."

annotator: llm

### Annotation\_2

category: "catalyst"

answer: "**TiO2**"

source: "...whereas Pt/TiO 2 catalysts ..."

annotator: llm