Supporting information for

## CO<sub>2</sub> fixation: cycloaddition of CO<sub>2</sub> to epoxides by practical metal-free recyclable catalysts

Wuttichai Natongchai,<sup>a</sup> Daniel Crespy<sup>b</sup> and Valerio D' Elia \*<sup>a</sup>

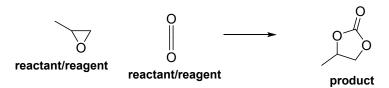
<sup>a</sup> Department of Materials Science and Engineering, VISTEC Advanced Laboratory for Environment-Related Inorganic and Organic Syntheses, Vidyasirimedhi Institute of Science and Technology, (VISTEC), Payupnai, WangChan, Rayong 21210, Thailand. email: <u>valerio.delia@vistec.ac.th</u>

<sup>b</sup> Department of Material Science and Engineering, School of Molecular Science and Engineering, Vidyasirimedhi Institute of Science and Technology (VISTEC), Payupnai, WangChan, Rayong 21210, Thailand.

## **Data collection for Scheme 2**

The data plotted in Scheme 2 of the manuscript were collected through SciFinder<sup>®</sup> searches. The searches for reactions a-g in Scheme 2 were performed according to the sketches and criteria shown below. For each reaction, a table with the number of publications per year is provided.

a) Reaction search:



Structure match: As drawn

Number of steps: 1

Document type: Journal (no reviews) or Patent

Publication years: 2019-2023

Number of results:

Year	2019	2020	2021	2022	2023
Journal articles	217	220	225	237	231
Patents	53	71	114	82	108

b) Substances search:



Structure match: Substructure

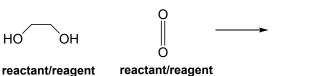
**Reaction role: Product** 

Document type: Journal (no reviews) or Patent

Publication years: 2019-2023

Year	2019	2020	2021	2022	2023
Journal articles	60	58	52	69	90
Patents	81	97	84	112	151

## c) Reaction search



product

Structure match: Substructure

Number of steps: 1

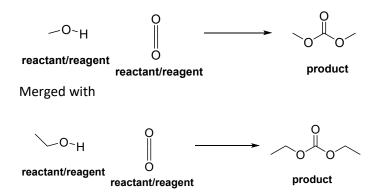
Document type: Journal (no reviews) or Patent

Publication years: 2019-2023

Number of results:

Year	2019	2020	2021	2022	2023
Journal articles	53	30	9	51	12
Patents	9	6	15	1	9

d) Reaction search



Structure match: As drawn

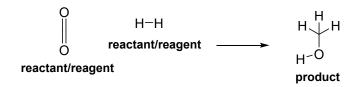
Number of steps: 1

Document type: Journal or Patent

Publication years: 2019-2023

Year	2019	2020	2021	2022	2023
Journal articles	27	10	12	22	2
Patents	10	21	18	13	20

e) Reaction search



Structure match: As drawn

Number of steps: 1

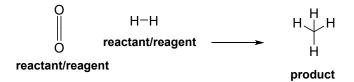
Document type: Journal or Patent

Publication years: 2019-2023

Number of results:

Year	2019	2020	2021	2022	2023
Journal articles	79	75	119	90	167
Patents	85	58	63	74	80

f) Reaction search



Structure match: As drawn

Number of steps: 1

Document type: Journal or Patent

Publication years: 2019-2023

Year	2019	2020	2021	2022	2023
Journal articles	74	78	75	77	192
Patents	59	69	89	56	59



Structure match: Similarity

Number of steps: 1

Document type: Journal or Patent

Publication years: 2019-2023

Year	2019	2020	2021	2022	2023
Journal articles	92	90	101	53	196
Patents	21	27	39	25	22