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## Storage Material Effects on the Performance of Ru-Based CO<sub>2</sub> Capture and Methanation Dual Functioning Materials

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Industrial & Engineering Chemistry Research, 2021, 60, 6706-6718.

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#	Paper	IF	Citations
19	CO Capture at Medium to High Temperature Using Solid Oxide-Based Sorbents: Fundamental Aspects, Mechanistic Insights, and Recent Advances. <i>Chemical Reviews</i> , <b>2021</b> , 121, 12681-12745	68.1	35
18	The effect of catalyst formulation and Rh dispersion on the performance of a CPO fuel processor investigated by operando sampling technique and predictive modelling analysis. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> , 47, 7150-7167	6.7	
17	Tuning basicity of dual function materials widens operation temperature window for efficient CO <sub>2</sub> adsorption and hydrogenation to CH <sub>4</sub> . <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2022</b> , 58, 101922	7.6	4
16	Potential Application of Alkaline Metal Nitrate-Promoted Magnesium-Based Materials in the Integrated CO <sub>2</sub> Capture and Methanation Process. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 2882-2893	3.9	2
15	Promotion of Ru or Ni on Alumina Catalysts with a Basic Metal for CO Hydrogenation: Effect of the Type of Metal (Na, K, Ba).. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	1
14	Applicability of LaNiO <sub>3</sub> -derived catalysts as dual function materials for CO <sub>2</sub> capture and in-situ conversion to methane. <i>Fuel</i> , <b>2022</b> , 320, 123842	7.1	2
13	Aging study of low Ru loading dual function materials (DFM) for combined power plant effluent CO <sub>2</sub> capture and methanation. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 310, 121294	21.8	1
12	Aging studies on dual function materials Ru/Ni-Na/Ca-Al <sub>2</sub> O <sub>3</sub> for CO <sub>2</sub> adsorption and hydrogenation to CH <sub>4</sub> . <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 107951	6.8	0
11	Recent Progress in Integrated CO <sub>2</sub> Capture and Conversion Process Using Dual Function Materials: A State-of-the-Art Review. <i>Carbon Capture Science &amp; Technology</i> , <b>2022</b> , 100052		1
10	CO <sub>2</sub> methanation reaction pathways over unpromoted and NaNO <sub>3</sub> -promoted Ru/Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Catalysis Science and Technology</i> ,	5.5	0
9	Mechanistic insights into the CO <sub>2</sub> capture and reduction on K-promoted Cu/Al <sub>2</sub> O <sub>3</sub> by spatiotemporal operando methodologies. <i>Catalysis Science and Technology</i> ,	5.5	
8	Sulfur tolerance and self-regeneration mechanism of Na-Ru/Al <sub>2</sub> O <sub>3</sub> dual function material during the cyclic CO <sub>2</sub> capture and catalytic methanation. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 317, 121705	21.8	2
7	Ca doping effect on the performance of La <sub>1-x</sub> Ca <sub>x</sub> NiO <sub>3</sub> /CeO <sub>2</sub> -derived dual function materials for CO <sub>2</sub> capture and hydrogenation to methane. <b>2022</b> , 122045		0
6	Bimetallic RuNi-decorated Mg-CUK-1 for oxygen-tolerant carbon dioxide capture and conversion to methane. <b>2022</b> , 14, 15669-15678		0
5	How the presence of O <sub>2</sub> and NO <sub>x</sub> influences the alternate cycles of CO <sub>2</sub> adsorption and hydrogenation to CH <sub>4</sub> on Ru-Na-Ca/Al <sub>2</sub> O <sub>3</sub> dual function material. <b>2023</b> , 67, 102343		1
4	Cyclic performance in CO <sub>2</sub> capture-methanation of bifunctional Ru with different base metals: Effect of the reactivity of CO <sub>x</sub> ad-species. <b>2023</b> , 68, 102370		0
3	Harnessing the structural attributes of NiMg-CUK-1 MOF for the dual-function capture and transformation of carbon dioxide into methane. <b>2022</b> , 140623		1

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- 1 Boosting dual function material Ni-Na/Al<sub>2</sub>O<sub>3</sub> in the CO<sub>2</sub> adsorption and hydrogenation to CH<sub>4</sub>: Joint presence of Na/Ca and Ru incorporation. **2023**, 11, 109401 ○