Publications of Siddhartha Sengupta

S. No.	Authors	Title	Name of the Journal	Vol.	Page	Year
01						
02	S C Nayak, S Sengupta, G Deo	*Effect of Contact Time on Carbon Deposition and Catalytic Activity of Nickel Alumina Catalysts for Dry Reforming of Methane*	*Chemistry Select*	9(27)	e202304841	2024
03	V.V.S.S.D. Manikanta, S Sengupta.	Ni-based Catalyst Development for the Catalytic Conversion of CO_2 to Substitute Natural Gas—Effect of Preparation Method	*Catalysis Letters*	-	-	2024
04	Pavan K. Gupta, Vineet Kumar, Sudip Maity, Goutam Kishore Gupta, Sudipta Datta, Arvind Singh, **Siddhartha Sengupta**	*Comparative Studies of Co/SBA-15 Catalysts Synthesized with Different Silica Sources Including Coal Fly Ash for Fischer-Tropsch Synthesis*	*Chemistry Select*	8 (11)	e202204962	2023
05	R Kumari, **S Sengupta**	*$MgAl_2O_4$ with CaO in supported Ni and Ni-Co catalysts - impact on CO_2 reforming of CH_4*	*Indian Chemical Engineer*	65(6)	574-586	2023
06	M D Shakir, M Prasad K Ray, **S Sengupta,** A Sinhamahapatra, S Liu, H Vuthaluru,	*$NaBH_4$-Assisted Synthesis of $B-(Ni-Co)/MgAl_2O_4$ Nanostructures for the Catalytic Dry Reforming of Methane*	*ACS Applied Nano Materials*	5	10951−10961	2022
07	M D Shakir, M Prasad K Ray, **S Sengupta**, A Sinhamahapatra, S Liu, H Vuthaluru,	*B-Ni/$MgAl_2O_4$ catalyzed dry reforming of methane: The role of boron to resist the formation of graphitic carbon*	*Fuel*	320	123950	2022
08	M Prasad, K Ray, A Sinhamahapatra, **S Sengupta;** 57 (2022)	*Ni/$Ce_xZr_{1-x}O_2$ catalyst prepared via one-step co-precipitation for CO_2 reforming of CH_4 to produce syngas: Role of oxygen storage capacity (OSC) and oxygen*	*Journal of Materials Science*	57	2839–2856	2022

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		vacancy formation energy (OVFE)				
09	S Biswas, H-Y Lee, M Prasad, A Sharma, J-S Yu, **S Sengupta**, D D Pathak, and A Sinhamahapatra	*Black TiO_{2-x} Nanoparticles Decorated with Ni Nanoparticles and Trace Amounts of Pt Nanoparticles for Photocatalytic Hydrogen Generation,*	*ACS Applied Nano Materials*	4	4441-4451	2021
10	R Kumari, **S Sengupta**	*Catalytic CO_2 reforming of CH_4 over $MgAl_2O_4$ supported Ni-Co catalysts for the syngas production,*	*International Journal of Hydrogen Energy*	45	22775 - 22787	2020
11	K Ray, **S Sengupta**, G Deo	*Reforming and cracking of CH_4 over Al_2O_3 supported Ni, Ni-Fe and Ni-Co catalysts*;	*Fuel Processing Technology*	156	195-203.	2017
12	**S Sengupta** and G Deo	*Modifying alumina with CaO or MgO in supported Ni and Ni-Co catalysts and its effect on dry reforming of CH_4*	*Journal of CO_2 Utilization*	10	67-77.	2015
13	G P Singh, A P Moon, **S Sengupta**, G Deo, S Sangal and K Mondal	*Corrosion Behavior of IF Steel in Various Media and Its Comparison with Mild Steel*;	*Journal of Materials Engineering and Performance*	24	1961-1974.	2015
14	**S Sengupta**, K Ray and G Deo	*The effects of modifying the Ni/Al_2O_3 catalyst with cobalt on the catalytic reforming of CH_4 with CO_2 and cracking of CH_4 reactions*;	*International Journal of Hydrogen Energy*	39	11462 - 11472	2014
15	Taraknath Das, **S Sengupta** and G Deo	*Effect of calcination temperature during the synthesis of Co/Al_2O_3 catalyst used for the hydrogenation of CO_2*	*Reaction Kinetics, Mechanisms and Catalysis*	110	147-162.	2013
16	A Choudhary, **S Sengupta**, C Bhattacharjee and S Datta	*Effects of co-solutes on Cr (VI) removal by micellar enhanced*	*Desalination and Water Treatment*	44	67-74.	2012

		ultrafiltration (MEUF) process;				
17	S Mondai,, S Dasgupta., **S Sengupta**, C Bhattacharjee, S Mondai,	*A study based on the different dozing levels pf primary tanery wastewater treatement*	*Indian Journal of Environmental Protection*	30(1)	40–45	2010
18	A Choudhary, **S Sengupta**, C Bhattacharjee and S Datta,	*Extraction of Hexavalent Chromium from Aqueous Stream by Emulsion Liquid Membrane (ELM)*;	*Separation Science and Technology*	45	178-185.	2010