

# Dhruba J Deka

## List of Publications by Year in descending order

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Version: 2024-02-01

15  
papers

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citations

840776

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1058476

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Production of syngas with controllable H <sub>2</sub> /CO ratio by high temperature co-electrolysis of CO <sub>2</sub> and H <sub>2</sub> O over Ni and Co- doped lanthanum strontium ferrite perovskite cathodes. Applied Catalysis B: Environmental, 2019, 248, 487-503.	20.2	72
2	Coke formation during high-temperature CO <sub>2</sub> electrolysis over AFeO <sub>3</sub> (A=La/Sr) cathode: Effect of A-site metal segregation. Applied Catalysis B: Environmental, 2021, 283, 119642.	20.2	48
3	Effect of lanthanum and chlorine doping on strontium titanates for the electrocatalytically-assisted oxidative dehydrogenation of ethane. Applied Catalysis B: Environmental, 2018, 227, 90-101.	20.2	44
4	Investigation of hetero-phases grown via in-situ exsolution on a Ni-doped (La,Sr)FeO <sub>3</sub> cathode and the resultant activity enhancement in CO <sub>2</sub> reduction. Applied Catalysis B: Environmental, 2021, 286, 119917.	20.2	42
5	A review of the current trends in high-temperature electrocatalytic ammonia production using solid electrolytes. Journal of Catalysis, 2020, 387, 207-216.	6.2	25
6	Hydrogen Production from Water in a Solid Oxide Electrolysis Cell: Effect of Ni Doping on Lanthanum Strontium Ferrite Perovskite Cathodes. Industrial & Engineering Chemistry Research, 2019, 58, 22497-22505.	3.7	19
7	CO <sub>2</sub> and H <sub>2</sub> O Electrolysis Using Solid Oxide Electrolyzer Cell (SOEC) with La and Cl- doped Strontium Titanate Cathode. Catalysis Letters, 2019, 149, 1743-1752.	2.6	19
8	A Transient-Response methodology based on experiments and modeling for Cu-Redox Half-Cycle kinetic analysis on a Cu-SSZ-13 SCR catalyst. Chemical Engineering Journal, 2022, 435, 134219.	12.7	14
9	Temperature-induced changes in the synthesis gas composition in a high-temperature H <sub>2</sub> O and CO <sub>2</sub> co-electrolysis system. Applied Catalysis A: General, 2020, 602, 117697.	4.3	12
10	Assessing impact of real-world aging on Cu-redox half cycles of a Cu-SSZ-13 SCR catalyst via transient response measurements and kinetic modeling. Applied Catalysis B: Environmental, 2022, 309, 121233.	20.2	12
11	Application of solid electrolyte cells in ion pump and electrolyzer modes to promote catalytic reactions: An overview. Catalysis Today, 2019, 323, 3-13.	4.4	11
12	Advances in High-Temperature Electrocatalytic Reduction of CO <sub>2</sub> and H <sub>2</sub> O. Advances in Catalysis, 2018, 62, 113-165.	0.2	8
13	On the various Cu-redox pathways and O <sub>2</sub> -mediated Bronsted-to-Lewis adsorbed-NH <sub>3</sub> redistribution under SCR half-cycle conditions. Applied Catalysis A: General, 2022, 640, 118656.	4.3	7
14	Incident-angle dependent <i>in operando</i> XAS cell design: investigation of the electrochemical cells under operating conditions at various incidence angles. RSC Advances, 2021, 11, 6456-6463.	3.6	4
15	Composite Cathodes with Oxide and Nitride Phases for High-Temperature Electrocatalytic Ammonia Production from Nitrogen and Water. , 0, , .		2