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Dhruba Jyoti Deka

Chemical Engineer at Pacific Northwest National Laboratory

Richland, Washington, United States · **Contact Info**

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Pacific Northwest National Laboratory

The Ohio State University

About

- R&D Associate Staff at ORNL with focus on decarbonizing the energy/chemical sector and alleviating greenhouse gas emission
- Experienced with both thermocatalysis and electrocatalysis

Activity

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Distinguished University Professor and Department Chair Umit Ozkan, who earlier this year received the American Chemical Society's 2024 George A…

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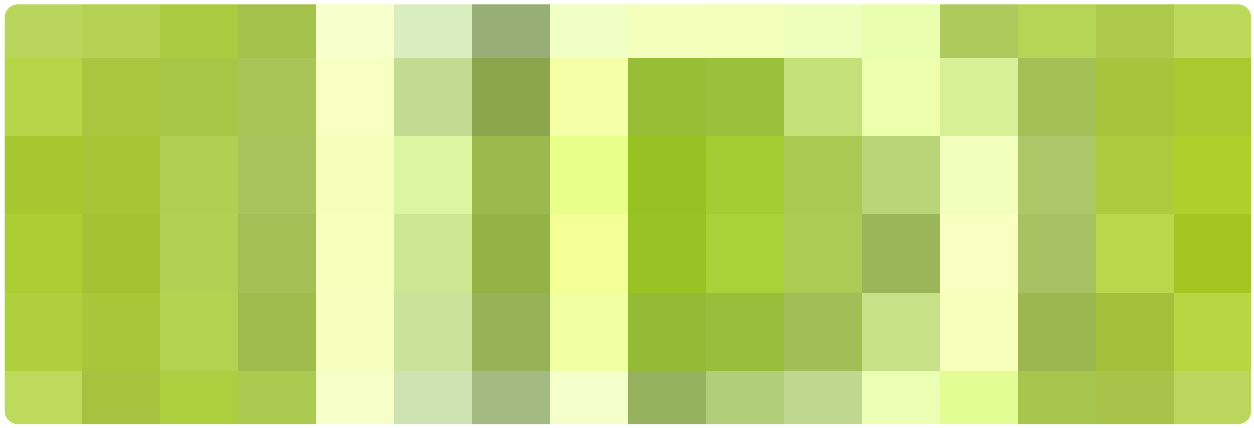

Excited to share our latest article on direct air capture and conversion to C-C coupled products in Green Chemistry. Our study introduces a single…

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Dear Community, I am thrilled to share a major milestone in my career journey: I have transitioned from my role as a post-doctoral researcher at…

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Experience

Chemical Engineer
Pacific Northwest National Laboratory
Sep 2023 - Present · 1 year 2 months
Richland, Washington, United States

Oak Ridge National Laboratory
3 years 5 months

R&D Associate Staff
May 2022 - Sep 2023 · 1 year 5 months
Oak Ridge, Tennessee, United States

• Methane oxidation catalysts design, synthesis and scale up for applications in real-life natural gas engine exhaust for converting emitted pollutants into harmless molecules
• CO2 Capture using a scalable intensified device packing in a solvent-based CO2 absorption column which helps in decreasing the overall heights of absorption columns and reduces the capital and operational costs
• Catalytic regeneration of CO2 capture solvents to decrease energy penalty
• Automotive catalysis…

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Postdoctoral Reserach Associate
May 2020 - Apr 2022 · 2 years
Oak Ridge, Tennessee, United States

• Intra-catalyst measurement of transient reaction species using non-invasive spatially resolved capillary inlet mass spectrometer (SpaciMS) to understand how reaction profiles evolve along catalyst length
-Applied SpaciMS to commercial Cu-SSZ-13 SCR catalyst for elucidating impact of field aging, sulfur poisoning and hydrothermal aging on the SCR redox half cycle kinetics and state of active Cu-sites
-Applied SpaciMS to commercial Natural Gas-TWC to understand the spatiotemporal…

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PhD Candidate and Graduate Research Associate
The Ohio State University
Aug 2015 - May 2020 · 4 years 10 months
Columbus, Ohio Area

• Conversion of CO2 and H2O into synthesis gas (CO+H2) in a solid oxide electrolysis cell: Developed strategically doped mixed metal oxide cathode catalysts for CO2 and H2O electrolysis to form syngas with adjustable H2 and CO composition; materials had excellent stability under high temperature and redox conditions
• Oxidative dehydrogenation of ethane and propane in an electrochemical reactor and packed bed: Designed perovskite oxide materials for anodic application in a solid oxide…

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Graduate Teaching Associate
Department of Chemical Engineering, The Ohio State University

Aug 2016 - Dec 2018 · 2 years 5 months

Worked with Prof. Umit Ozkan (Fall 2016), Prof. Jeffrey Chalmers (Spring 2017) and Prof. Nicholas Brunelli (Fall 2018) for undergraduate Kinetics (CBE 3610) classes of over 100 students to hold additional classes, office hours, draft exam problems and grade exams

Chemical Process Engineer

Reliance Industries Limited

Jul 2013 - Jun 2015 · 2 years

Dahej Manufacturing Division, Bharuch

• Optimized process parameters, troubleshot problems such as product contamination, ineffective reactant mixing and runaway reactions in a ethylene-vinyl acetate polymer plant
• Monitored installation and start-up of new distillation columns and box furnaces during debottlenecking expansion of a vinyl chloride monomer plant
• Improved the separation efficiencies of distillation columns separating ethylene dichloride, water and heavy ends
• Led a team of 10 selected engineers and…

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Education

The Ohio State University

Doctor of Philosophy - PhD · Chemical Engineering · 3.97

2015 - 2020

Activities and Societies: Co-Chair, Dow CBE Graduate Research Symposium, 2017-18 Business Officer, Chemical Engineering Graduate Council, 2016-17 Judge, School student projects on Ohio Science Day, 2019 Judge, Undergraduate Research Forum, 2020

National Institute of Technology Karnataka

Bachelor of Technology (B.Tech.) · Chemical Engineering · CGPA- 9.4/10

2009 - 2013

Activities and Societies: • Member of NITK Students' Council (2012-13) • Secretary, Engineer, a flagship technical festival at NITK: Worked with a team of 30 core members and 700 volunteers (2012) • Vice president of National Service Scheme, an Indian government funded public service non-profit organization, NITK Chapter (July '11- May '13) • Executive member of Management Forum (NITK) and Editor of the forum's newsletter "Bulls and Bears" (2010-2013) • Executive member of Artist's Forum, NITK (July '10- May '13)

Cotton College

Senior Secondary School Leaving Certificate · Science · Distinction (89%), Ranked 6th in Assam State

2007 - 2009

Publications

Pronounced reduction in the regeneration energy of potassium sarcosinate CO2 capture solvent using TiO2

Separation and Purification Technology · July 22, 2024

Absorption-based CO2 capture technologies face economic feasibility concerns due to the exceedingly high energy requirements of solvent regeneration. Among various proposed solutions, solid acid-aided solvent regeneration stands out as a promising approach. Studies have shown that solid materials containing Lewis and Brønsted acid sites can facilitate deprotonation of protonated amine and breakdown of carbamate molecules, which significantly increases CO2 desorption rate and decreases…

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Balanced Fast-SpaciMS capillary configurations provide practically noninvasive channel-average measurements in catalytic monoliths

Chemical Engineering Sceince · September 15, 2023

Spatially resolved capillary-inlet mass spectrometry (SpaciMS) provides a detailed picture of the spatiotemporal evolution of reaction network in catalytic monoliths. In the present work, we combine the SpaciMS experiments with a newly developed non-isothermal 3D CFD model for heterogeneously catalyzed reactive flows, including diffusion and permeation through the coated catalyst and channel wall. We explore how the capillary size and sampling rate can be balanced to minimize the impact on…

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Impact of Mg on Pd-based methane oxidation catalysts for lean-burn natural gas emissions control

Applied Catalysis B: Environmental · September 4, 2023

More efficient lean-burn, natural gas engines are limited by greenhouse gas emissions due to methane oxidation catalysts (MOC) that suffer from water inhibition and high temperature activation. Herein, we report that the addition of Mg to supported 1 wt% Pd MOCs improved hydrothermal stability even after severe hydrothermal aging. The superior methane oxidation activity compared to the corresponding Mg-free catalyst was attributed to (1) influence of Mg during surface roughening and…

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Intra-catalyst CH4 oxidation pathways on a Pd/Al2O3/CeZrOx-based commercial catalyst and implications on NOx conversion profiles for a natural gas vehicle exhaust under lambda modulation

Chemical Engineering Journal · July 17, 2023

The performance of a three-way catalyst (TWC) in natural gas-powered vehicles is enhanced by periodic changes in air-to-fuel ratio (λ-modulation). The reaction networks and sequences inside the catalyst that facilitate such enhanced performance have not been extensively investigated. This work applied intra-catalyst measurements (SpaciMS) to analyze the transient spatiotemporal

gas concentrations inside a Pd-based TWC to establish relationships between CH4, NOx, CO and H2 conversion pathways…

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Influence of design and operating parameters for additively manufactured intensified packing devices on CO2-Absorption column cooling and capture efficiency

Chemical Engineering Journal · January 26, 2023

Abstract
Solvent-based CO2 absorption is technologically a matured CO2 capture pathway but suffers from: high regeneration energy demand, and solvent temperature rise and decreased capture efficiency caused by the heat of reaction. While research has focused on developing non-aqueous and low-aqueous solvents for decreasing the regeneration energy, the temperature bulge due to exothermic absorption is typically dealt with by cooling the solvent with an external inter-stage heat-exchanger…

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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 · June 15, 2022

The SCR reaction on Cu-SSZ-13 is a redox process consisting of a reduction half-cycle (RHC) and an oxidation half-cycle (OHC). Despite extensive efforts to understand hydrothermal aging and sulfur poisoning, the impact of real-world aging on the SCR activity of Cu-SSZ-13 has not been reported. This work employs a transient response methodology consisting of experiments and kinetic models to investigate the SCR redox cycles at intra-catalyst locations of commercial Cu-SSZ-13 monolith catalysts…

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On the various Cu-redox pathways and O2-mediated Bronsted-to-Lewis adsorbed-NH3 redistribution under SCR half-cycle conditions

Applied Catalysis A: General · June 15, 2022

The Standard SCR reaction on Cu-SSZ-13 is a complex redox process facilitated by a reduction half cycle (RHC) and an oxidation half cycle (OHC). It is generally accepted that RHC requires the simultaneous presence of NO and NH3, while OHC requires both NO and O2; however understanding of how these individual reactants impact the Cu redox cycle is limited. In this study, we provide experimental investigation of NO-only, NH3-only and NO+NH3 RHC, and their relative rates. Simple kinetic models…

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Kinetic Model for the Reduction of CuII Sites by NO + NH3 and Reoxidation of NH3-Solvated CuI Sites by O2 and NO in Cu-SSZ-13

ACS Catalysis · May 16, 2022

In this work, a kinetic model is developed for the reduction of CuII sites by NO+NH3 and the reoxidation of NH3-solvated CuI sites by O2 and NO in Cu-SSZ-13. Fourier transform infrared (FTIR) spectroscopy and spatially resolved capillary inlet mass spectrometry (SpaciMS) measurements during transient reactor experiments are utilized to identify the rate parameters associated with NO + NH3 RHC (reduction half-cycle), proposed to occur via two distinct pathways involving adsorbed NH3 and…

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Composite Cathodes with Oxide and Nitride Phases for High-Temperature Electrocatalytic Ammonia Production from Nitrogen and Water

ECS Advances · April 28, 2022

The conventional route for ammonia (NH3) production is the Haber-Bosch (HB) process, which converts nitrogen and hydrogen through a thermo-catalytic reaction at high temperatures and pressures. The HB process is not efficient or economical at smaller scales. Recent years have seen significant effort in producing ammonia electrocatalytically. While direct electrochemical synthesis of NH3 has been reported at low temperatures in aqueous media, studies on high-temperature electrocatalysis are much…

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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 · February 1, 2022

The Standard SCR reaction catalyzed by Cu-SSZ-13 is a redox process consisting of a reduction half cycle (RHC) and an oxidation half cycle (OHC) that cycle the active Cu sites between the Cu(II) and Cu(I) states. In the current work, a transient-response methodology consisting of experimental transient response Cu-redox (TRCR) measurements and kinetic modeling was developed for detailed study of individual SCR Cu-redox half cycles. The TRCR protocol allows quantification of the reducible Cu…

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Direct 2,3-Butanediol Conversion to Butene-Rich C3+ Olefins over Copper-Modified 2D Pillared MFI: Consequence of Reduced Diffusion Length

ACS Sustainable Chemistry & Engineering · January 20, 2022

2,3-Butanediol (2,3-BDO), a critical C4 platform chemical derived from biomass, syngas, or CO2, can be converted to C3+ olefins, serving as important renewable feedstocks for producing sustainable aviation fuels to decarbonize the hard-to-electrify air transportation sector. Herein, we report a bifunctional Cu-modified diffusion-free 2D pillared MFI catalyst (Cu/PMFI) which can selectively catalyze 2,3-BDO conversion to butene-rich C3+ olefins (95% selectivity at 97% conversion, 523 K). 2,3-BDO…

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Incident-angle dependent operando XAS cell design: investigation of the electrochemical cells under operating conditions at various incidence angles

RSC Advances · February 4, 2021

An operando characterization of electrode materials under electrochemical reaction conditions is important for their further development. X-ray absorption spectroscopy (XAS) presents a unique opportunity in this regard as the absence of a vacuum chamber in this technique makes it possible to collect spectroscopy data using user-designed operando cells. In the current study, the design and performance of an operando XAS cell are evaluated for characterizing solid oxide electrolysis cell working…

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Investigation of Hetero-phases Grown via In-situ Exsolution on a Ni-doped (La, Sr) FeO3 Cathode and the Resultant Activity Enhancement in CO2 Reduction

Applied Catalysis B: Environmental · February 1, 2021

Exsolution of metal nanoparticles from a perovskite oxide combined with concomitant oxygen vacancy creation can enhance the catalytic activity of the parent perovskite. In this study, a Ni-doped (La,Sr)FeO3 perovskite was subjected to a controlled reduction environment for populating its surface with B-site metal nanoparticles and oxygen vacancies, which also led to the evolution of a Ruddlesden-Popper (RP) oxide phase. Environmental TEM and in-situ XRD showed that the metal nanoparticles…

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Coke formation during high-temperature CO2 electrolysis over AFeO3 (A = La/Sr) cathode: Effect of A-site metal segregation

Applied Catalysis B: Environmental · October 16, 2020

In this study, strontium-doped lanthanum ferrite perovskite oxides (LSF) with different A-site occupancies were used as cathode catalysts for CO2 electrolysis at 800 °C. XRD, EXAFS, XPS, FTIR, and temperature-programmed desorption were used to characterize the properties of the material. Fe K-edge EXAFS indicated that oxygen vacancy concentration and oxidation states of Fe atoms increased with concomitant improvement of electronic and ionic conductivities with a decrease in the A-site…

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Phosphate tolerance of nitrogen-coordinated-iron-carbon (FeNC) catalysts for oxygen reduction reaction: A size-related hindrance effect

Journal of Catalysis · October 1, 2020

The greatest challenges facing the large – scale commercialization of the intermediate temperature phosphoric acid fuel cell (PAFC) technology are: (i) the high cost of Pt catalyst that is required to overcome the slow kinetics of oxygen reduction reaction (ORR) on the PAFC cathode, and (ii) deactivation of the Pt catalyst by exposure to the phosphoric acid electrolyte. Inexpensive carbon-based materials, particularly iron-nitrogen-coordinated carbon supported catalysts (FeNC), are promising…

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Temperature-induced changes in the synthesis gas composition in a high-temperature H2O and CO2 co-electrolysis system

Applied Catalysis A: General · June 19, 2020

Solid oxide electrolysis cell (SOEC) is an attractive renewable technology capable of producing synthesis gas (H2+CO) from H2O and CO2. An SOEC consists of a solid oxide electrolyte and two ceramic or metal-ceramic electrodes. H2O and CO2 are electrolyzed at the cathode producing H2 and CO, releasing O2– ions, which travel through the electrolyte to the anode side and recombine to produce pure oxygen gas as the byproduct. In the present study, a La0.7Sr0.2Ni0.2Fe0.8O3 cathode was used to…

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A review of the current trends in high-temperature electrocatalytic ammonia production using solid electrolytes

Journal of Catalysis/ Elsevier · May 7, 2020

High-temperature solid-state electrochemical synthesis of ammonia is a promising route for clean, sustainable and on-demand small-scale production of ammonia with lower energy consumption compared to the conventional Haber-Bosch process. Despite of its significant potential, there are still many aspects of this process that remain unexplored. In this mini-review article, the literature on high-temperature solid-state electrochemical ammonia production was summarized, the current state of the…

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Hydrogen Production from Water in a Solid Oxide Electrolysis Cell: Effect of Ni Doping on Lanthanum Strontium Ferrite Perovskite Cathodes

Industrial & Engineering Chemistry Research · November 4, 2019

High-temperature water electrolysis in a solid oxide electrolysis cell (SOEC) can be an efficient way of producing hydrogen, especially if it can be coupled with a renewable energy source. In this study, the performance of a nickel-doped, A-site deficient lanthanum strontium ferrite (La0.7Sr0.2FeO3) was investigated as an SOEC cathode. Electrolysis of H2O was carried out using a cathode stream containing 3% H2O/He at 800 °C and at various current densities. It was found that La0.7Sr0.2FeO3 has…

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CO2 and H2O Electrolysis Using Solid Oxide Electrolyzer Cell (SOEC) with La and Cl- doped Strontium Titanate Cathode

Catalysis Letters/ Springer · April 17, 2019

The average CO2 concentration in atmosphere increased by 25 ppm in the last decade. Because of the greenhouse effect of CO2, a growing area of research is trying to find ways to minimize CO2 emission and decrease the CO2 concentration in the atmosphere. Besides reducing the CO2 emission, it is also important to develop technologies to convert CO2 into valuable products. One such product is syngas, a mixture of carbon monoxide and hydrogen that can be used as fuel, as well as for synthesis of…

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Production of syngas with controllable H2/CO ratio by high temperature co-electrolysis of CO2 and H2O over Ni and Co- doped lanthanum strontium ferrite perovskite cathodes

Applied Catalysis B: Environmental · February 19, 2019

Conversion of CO2 and H2O into synthesis gas in a high temperature solid oxide electrolysis cell (SOEC) is an attractive route for CO2 utilization. Depending on the composition of the syngas, it can be directly used as a fuel or fed to an oxo process or a Fischer-Tropsch process to produce value added chemicals. Designing an efficient and stable cathode for an SOEC that can yield syngas with controllable H2/CO ratio is of fundamental interest. In the current study, Ni and Co-doped A-site…

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Advances in High-Temperature Electrocatalytic Reduction of CO2 and H2O

Advances in Catalysis · November 1, 2018

Solid oxide electrolysis cells (SOECs) for electrochemical splitting of H2O and CO2 have attracted significant attention as a promising technology to efficiently store surplus renewable energy in the form of valuable chemicals and fuels. An SOEC does not only convert electrical energy into chemical energy but also offers a route to reduce CO2 emissions. Simultaneous electrolysis of H2O and CO2 is possible in an SOEC to form synthesis gas, which is a raw material for the production of chemicals…

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Application of solid electrolyte cells in ion pump and electrolyzer modes to promote catalytic reactions: An overview

Catalysis Today · August 18, 2018

See publication

Effect of Lanthanum and Chlorine Doping on Strontium Titanates for the Electrocatalytically-Assisted Oxidative Dehydrogenation of Ethane
Applied Catalysis B: Environmental · January 1, 2018

See publication

Patents

Materials for ammonia synthesis
Filed January 14, 2020 · US 16742390
Disclosed herein are doped perovskite oxides. The doped perovskite oxides may be used as a cathode material in an electrochemical cell to electrochemically generate ammonia from N2. The doped perovskite oxides may be combined with nitride compounds, for instance iron nitride, to further increase the efficiency of the ammonia production.

See patent

Courses

Advanced Kinetics
-

Advanced Thermodynamics
-

Advanced Transport Phenomena
-

Air Pollution
-

Analysis of Chemical and Biomolecular Engineering Problems
-

Analytical Spectroscopy
-

Basics of Internal Combustion Engine
SAE, PD730944

Catalytic Processes
-

Electrochemistry
-

Modelling and Simulation

-

Practical Course on Scanning Electron Microscopy
-

Short course on Extended X-ray Absorption Fine Structure, 2016 (Brookhaven National Lab)
-

Solid State Chemistry
-

Summer school on X-ray Absorption Spectroscopy 2017 (Argonne National Lab and IIT Chicago)
-

Projects

Low Carbon Fuel impact on emissions control system
Oct 2023

Reduction of N2O emissions
Sep 2023

CO2 capture by low-aqueous solvent in scaled-up absorption column
Dec 2021

Impact of real-world aging on Cu-SSZ-13 SCR catalyst
May 2020

Intra-catalyst reaction profile within a NG-TWC under air-fuel ratio dithering
May 2020

Production of ammonia from N2 and H2O under atmospheric pressure conditions
Aug 2017 - May 2020

High Temperature Co-electrolysis of carbon dioxide and water to produce synthesis gas.
Oct 2015 - May 2020

Electrocatalytically assisted oxidative dehydrogenation of ethane to produce ethylene.
Oct 2015 - Aug 2017

Honors & Awards

American Institute of Chemists' Outstanding Graduate Student Award

American Institute of Chemists

Apr 2020

The AIC Student Award Program honors outstanding seniors, post-baccalaureate, and post-doctoral students majoring in chemistry, chemical engineering or biochemistry. The awards are given in recognition of a demonstrated ability, leadership, and professional promise. Candidates are chosen and nominated by their faculty members.

Featured in The Ohio State University Dean’s List

The Ohio State University Environment Health and Safety

May 2019

Awarded to our research group for excellence in laboratory safety

Green Buckeye Certification

The Ohio State University

May 2018

Awarded to research group for commitment towards sustainability and conservation of energy

Outstanding Graduate Student Award

The Ohio State University

Apr 2018

For Academic Achievement

The Brodkey Award, 2016

The Ohio State University

Jan 2016

The Brodkey award was established in honor of Dr. Robert S. Brodkey, Emiritus Professor, Department of Chemical and Biomolecular Engineering . This award is presented to a first year graduate student showing aptitude in the field of transport phenomena and fluid dynamics.

Louis A. Roberts and Lucille Roberts Memorial Fellowship

College of Engineering, The Ohio State University

Oct 2015

The Robert Memorial Fellowship Fund is the oldest endowed scholarship in the College of Engineering, The Ohio State University. It's awarded to students with high scholastic ability, high personal integrity and competence in oral and written expression.

Test Scores

GRE

Score: 326/340

Nov 2014

TOEFL

Score: 110/120

Nov 2014

Languages

English
Professional working proficiency

Assamese
Native or bilingual proficiency

Hindi
Native or bilingual proficiency

Recommendations received

Survashish Chattopadhayay
“We together worked on running the day to day operations of Ethyl Vinyl Acetate & Vinyl chloromonomer plants. Dhruba is indispensable for his knowledge base & aptitude to deal with tough and emergency situations, with swift decisions. His leadership guided the team to execute decisions efficiently. I wish him all d best for his future endeavours & keep inspiring people to push their limits.”

1 person has recommended Dhruba Jyoti

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College Park, MD

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Greater Pittsburgh Region

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Madison, WI

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Rubaiyet Abedin
Oregon Assembly Technology Integration Engineer, Intel Corporation
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William Johnson
Senior Engineer at Savannah River National Laboratory
North Augusta, SC

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Quinton Meisner
Senior Cell Engineer at Tesla
Louisville, CO

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Prof Tokeer Ahmad, FRSC

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Weiran Zheng

Understanding why electrocatalyst lose its activity is the key to design stable…

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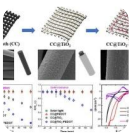
Ehab El Sawy

I am excited to share the latest publication from the Nanoelectrochemistry Lab (NEC…



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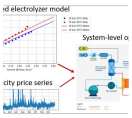
Dharik Mallapragada

Excited to share a new publication led by Doo Hyun Chung and Edward Graham, in…



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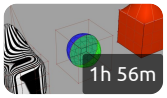

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