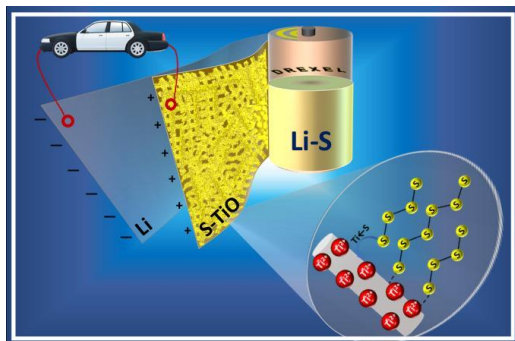




DREXEL UNIVERSITY

Chemical and Biological Engineering

College of Engineering



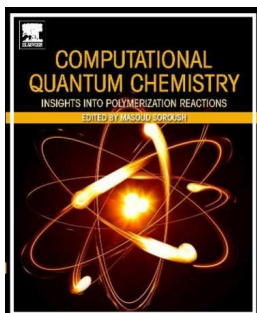
A Stabilizing Influence Enables Lithium-Sulfur Battery Evolution

In late July of 2008 a British solar plane set an unofficial flight-endurance record by remaining aloft for more than three days straight. Lithium-sulfur batteries emerged as one of the great technological

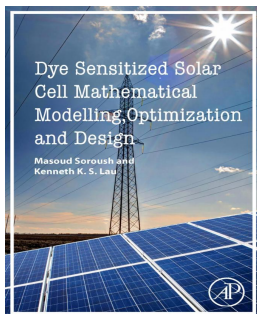
advances that enabled the flight -powering the plane overnight with efficiency unmatched by the top batteries of the day. Ten years later, the world is still awaiting the commercial arrival of "Li-S" batteries. But a breakthrough by researchers at Drexel University has just removed a significant barrier that has been blocking their viability.

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CBE Professors Soroush and Lau Author New Books



Dr. Masoud Soroush's book entitled "Computation Quantum Chemistry: Insights to Polymerization Reactions" was published by Elsevier on Oct 19, 2018. The book "consolidates extensive research results, couples them with computational quantum chemistry (CQC) methods applicable to polymerization reactions, and presents those results systematically."



Dr. Masoud Soroush's and Dr. Kenneth K. S. Lau's book entitled "Dye Sensitized Solar Cell Mathematical Modelling, Optimization and Design" will be published by Elsevier on April 1, 2019. Their book "covers advances in DSSC design, fabrication and mathematical modelling and optimization, providing a comprehensive coverage of various DSSC advances."

Professor Steve Wrenn Receives GAAN Fellowship

Congratulations to Professor Wrenn and Antonious Zavaliangos (MSE) on the award of the GAAN Engineering Fellowship for Pharmaceutical Problems. Professors Wrenn and Zavaliangos are among four winners in the College of Engineering. This is the team's third GAAN, and it will fund five graduate students.



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CBE PhD Student Michael Cimorelli Wins Best Poster Award

At the Biointerfaces International 2018 conference held in Zurich Switzerland, Michael Cimorelli delivered a 3-minute thesis presentation to an audience of over 300 people. He also presented a poster on his research "A Voltage-Sensitive Ultrasound Enhancing Agent: In Vitro and In Vivo Investigations." Among the 145 participants, Michael won Best Poster and received an award from academic journal, Acta Biomaterialia.

Dr. Soroush Awarded NSF Grant

Dr. Soroush was awarded an NSF grant for his research titled, "GOAL: Collaborative Research: On-Demand Continuous-Flow Production of High Performance Acrylic Resins: from Electronic-Level Modeling to Modular Process Intensification.



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CBE Senior Shawn Mengel Selected for Future Leaders Symposium

Congratulations to Shawn Mengel for being one of 15 Chemical Engineering undergraduates selected from a nationwide competition for the Future Leaders in Chemical Engineering National Award Symposium hosted by North Carolina State University. Shawn will be



presenting his research on developing novel methods for assembling solar cell materials from nanocrystal building blocks by chemically manipulating their surface charge.

A Day in the Life of a Co-op

Name: Oluwadamilola Bolarin

Class: Class of '21, Department of Chemical and Biological Engineering

Co-op: CoE Polymers & Composites Lab

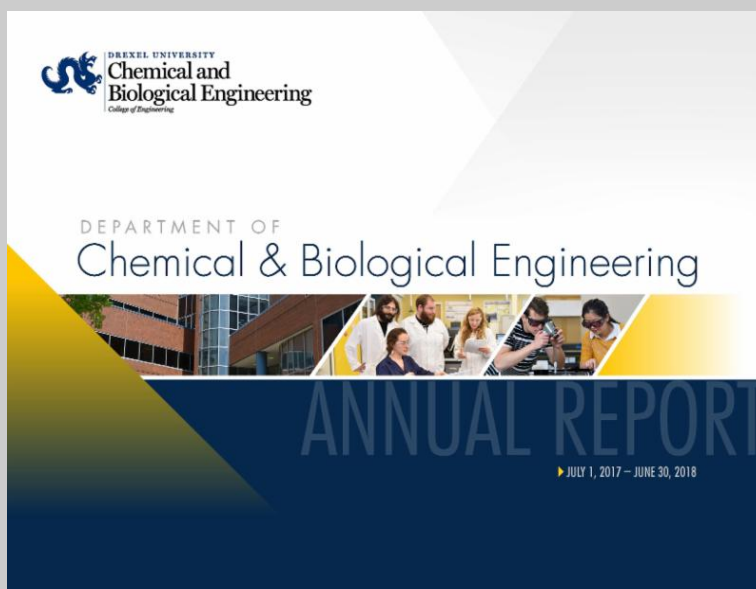
Work Performed: Chemical synthesis and characterization of plant-based reactive diluents and monomers

When: Now through March 2019

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