


Julie Burrell

Material/Inorganic Chemist

PhD Inorganic Chemist with experience in research and new product development for solid oxide fuel cell cathode materials. Creative problem solver who is able to approach complex problems from multiple perspectives to achieve solutions.

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 Houston

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EDUCATION

PhD Chemistry

University of Houston, Houston, TX

08/2011 – 08/2016

BS Chemistry

Magna Cum Laude

University of Houston, Houston, TX

08/2007 – 05/2011

PERSONAL PROJECTS

Mixed Ionic and Electronic Conductivity of Mixed Metal Oxides for IT-SOFC (08/2011 – 08/2016)

- Successfully synthesized and analyzed a family of five compounds enabling studies into structural property relationship for use as IT-SOFCs cathodes.
- Evaluated properties of such compounds using techniques which include: Electrical Conductivity Relaxation, Electrochemical Impedance Spectroscopy.

WORK EXPERIENCE

Lab Supervisor

Science and Teaching Lab/ University of Houston

09/2016 – Present

Tasks/Achievements

- Ensure safety and quality assurance practices are followed including maintenance of workstations and proper use of personal protective equipment
- Operate and maintain laboratory equipment including but not limited to GC, HPLC, UV-vis, PH meters, analyzing balances, autoclaves.
- Oversee lab operations and manage about 250 undergraduates students and 15 graduate teaching assistants.
- Provide routine duties as needed in the lab (e.g. troubleshooting lab equipment, check eye wash stations, refill chemical reagents, etc.)

Contact: David Hoffman – 713-743-3255

Adjunct Faculty

Houston Community College

02/2017 – Present

Tasks/Achievements

- Teach Introductory and General Chemistry and Laboratory Courses

Contact: Dr. Emmanuel Ewane – 713-718-5414

SKILLS & COMPETENCES

Material Chemistry	Analytics and problem solving
Microsoft Office	ECR
SEM-EDX	GC
UV-Vis	IR
HPLC	TGA
DSC	LabView
EIS	XRD

ACHIEVEMENTS

Dean's List (12/2007 – 01/2011)

Provost Undergraduate Research Scholarship (2010)

Outstanding Junior Award (2010)

ORGANIZATIONS

Chemistry Graduate Student Council (09/2013 – 07/2015)

Vice President

Graduate and Professional Student Association (10/2013 – 10/2015)

Research Chair

American Chemical Society (ACS)

National Society of Collegiate Scholars

The Honour Society of Phi Kappa Phi

Golden Key International Honor Society

Expanding Your Horizon in Science and mathematics

LANGUAGES

English
Native or Bilingual

French
Native or Bilingual