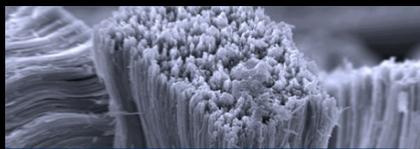


DEPARTMENT OF CHEMICAL AND ENVIRONMENTAL ENGINEERING



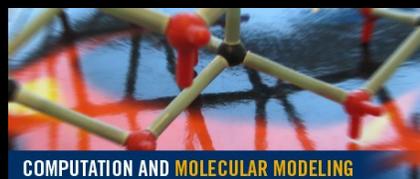
ADVANCED MATERIALS AND NANOTECHNOLOGY



AIR QUALITY SYSTEMS ENGINEERING



BIOTECHNOLOGY & BIOMOLECULAR ENGINEERING



COMPUTATION AND MOLECULAR MODELING



ENERGY CONVERSION & STORAGE



WATER QUALITY SYSTEMS ENGINEERING

RESEARCH FOR A GREENER WORLD

The Department of Chemical and Environmental Engineering is at the University of California Riverside is at the forefront of our nation's commitment to energy independence and sustainability. Our four fields of application — clean air, fresh water, human health and sustainable energy — are supported by six core areas of research strength:

Advanced Materials and Nanotechnology, Air Quality Systems, Biotechnology and Biomolecular Engineering, Computation and Molecular Modeling, Energy Conversion and Storage, and Water Quality Systems.

WE ENGINEER EXCELLENCE

The Graduate Program offers the M.S. and Ph.D. degrees in Chemical and Environmental Engineering. Graduates of the program in Chemical and Environmental Engineering are ready for careers in the fastest growing sectors of engineering with salaries among the highest of all college graduates. And they are fully prepared to contribute to the nation's priority challenges in energy, security, clean air and water, or anything else.

NRC RANKINGS

The National Research Council's (NRC) data-based assessment of U.S. Research doctorate programs demonstrated the excellence of the Department of Chemical and Environmental Engineering's faculty and the rapid rise in the quality of its graduate program. CEE was ranked in the NRC's top quartile.

UC RIVERSIDE

The University of California, Riverside (UCR) is the fastest growing and most ethnically diverse of the 10 campuses of the University of California. UCR is located on over 1,100 acres at the foot of the Box Springs Mountains, about 50 miles east of Los Angeles. Our picturesque campus is virtually equidistant from the desert, the mountains, and the ocean. UCR provides an ideal setting for students, faculty, and staff seeking to study, work, and live in a community steeped in rich heritage that offers a dynamic mix of arts and entertainment and an opportunity for affordable living.



INNOVATIVE FACULTY

Our faculty are leaders in innovative methods of air and water pollution control, making breakthroughs in commercializable fuel cell technologies, applying nanoscientific principles to create new sensors of toxic substances, and advancing the development of economical and clean renewable fuels and energy.

Kandis Leslie Gilliard-Abdul-Aziz (UIUC): *Nanoengineering and characterization of novel catalysts; sustainable materials chemistry*
Kelley Barsanti (OGI): *Chemical characterization of air pollutants and their precursors; mechanistic modeling of aerosols*
David Cocker (Caltech): *Air quality systems engineering; atmospheric chemistry*

Don Collins (Caltech): *Field and laboratory characterization of the formation, growth, and atmospheric processing of aerosols*

Xin Ge (McMaster): *Therapeutic antibody; microbial and enzyme engineering*

Juchen Guo (University of Maryland, College Park): *Composite materials for energy conversion and storage*

Cesunica Ivey (Georgia Tech): *Regional air quality modeling, source apportionment, and environmental justice*

David Kisailus (UC Santa Barbara): *Biomineralization and Bio-mimetics; bio-inspired nanomaterials synthesis for energy storage/conversion/ environmental applications*

Robert Jinkerson (Colorado School of Mines): *Functional genomics and metabolic engineering in algae and plants; coral-algal symbiosis*

Haizhou Liu (University of Washington): *Metal release in drinking water; application of redox chemical processes in water treatment and site remediation; environmental electrochemistry*

Ashok Mulchandani (McGill): *Bionanotechnology, biosensors, biocatalysis, biophotovoltaics, biomaterials*

Nosang Myung (UCLA): *Material electrochemistry; MEMS/NEMS; sensors; nanowires; thermoelectric materials*

Ian Wheeldon (Columbia): *Protein engineering; Synthetic biology; Biocatalysis; Biofuels*

Bryan Wong (MIT): *Density functional theory (DFT); computational materials science; light-harvesting nanomaterials; TD-DFT*

Jianzhong Wu (UC Berkeley): *Molecular theory and modeling; Density functional theory; Biophysics*

Charles Wyman (Princeton): *Sustainable production of fuels and chemicals through pretreatment, hydrolysis, and dehydration of cellulosic biomass including wood and grasses*

Ruoxue Yan (UC Berkeley): *Advanced materials for biological and energy applications to address the pressing medical, energy and environmental challenges facing humanity*

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