

## Division of Environmental Chemistry

# CERTIFICATE OF MERIT RECIPIENTS

**248<sup>th</sup> ACS National Meeting & Exposition, San Francisco, CA – August 10-14, 2014**

The Division of Environmental Chemistry Certificate of Merit is presented to the following first-time ENVR presenters at a national ACS meeting for presentations judged to be of high quality and relevant to the advancement of our understanding of environmental chemistry:

**Abdulaziz H. Al Anazi**, Synthesis of innovative ferrite-based recyclable catalyst degrade water contaminants of emerging concern [Pub 597]

**Onur Apul**, Adsorption of organic contaminants by graphene nanosheets: Comparison with carbon nanotubes and activated carbon [Pub 45]

**Christian E.H. Beaudrie**, Nanomaterial risk screening: A structured decision making (SDM) approach [Pub 253]

**Jennifer C. Bowen**, Impact of climate change on the photochemistry and the bioavailability of coastal water systems in Southern California [Pub 865]

**Bluyé B. DeMessie**, Sustainable and low cost approach for cleaning metal contaminated water using pyrolyzed banana peels biochars [Pub 240]

**Shashi P. Dubey**, Synthesis of carbon based nanomaterials and their applications in the removal of water contaminants [Pub 600]

**Jason Haase**, Development and scale-up of a hybrid carbon nanotube filter as a reactive substrate in ozone-based advanced oxidation processes [Pub 94]

**Ke He**, Determination of fluoroquinolone antibiotics in wastewater by solid-phase extraction high performance liquid chromatography with fluorescence detection [Pub 561]

**Jill F. Kerrigan**, Hydroxylase polybrominated diphenyl ethers in San Francisco Bay sediments and surface waters [Pub 217]

**Hyung-Eun Kim**, Inactivation of E. Coli and MS2 coliphage by persulfates in combination with carbon nanotubes [Pub 755]

**Wooyul Kim**, Photocatalytic CO<sub>2</sub> reduction by water Ir oxide cluster coupled to polynuclear ZrOCo unit in mesoporous silica [Pub 437]

**Esra Uckun Kiran**, Developing novel biorefineries using food waste as substrate [Pub 327]

**Stephanie S. Lau**, Influence of Cl<sub>2</sub> and Cl<sub>2</sub>O on the kinetics of phenol and chlorinated phenol chlorination [Pub 730]

**Shannon Leavey**, Veterinary antibiotics as a source of nitrosamine precursors [Pub 206]

**Feng Li**, Transformation of model nitrogenous organic compounds during chloramination [Pub 279]

**Kari Moses**, Biofouling resistant surface nanostructured reverse osmosis membranes [Pub 297]

**Katherine Peter**, Application of electrospun carbon nanofibers as sorbents: Influence of incorporated carbon nanotubes on material properties and surface reactivity [Pub 15]

**Huan Qi**, WO<sub>3</sub>-based tandem photoanode with improved lifespan and photoelectrochemical efficiency [Pub 436]

**Reginald E. Rogers**, Enhanced adsorption of carbon nanocomposites exhausted with 2,4-dichlorophenoxyacetic acid after regeneration by thermal oxidation and microwave irradiation [Pub 41]

**Leah K. Rubin**, Nitrogen heterocycles as a hydrogen alternative in polymer electrolyte membrane fuel cells [Pub 676]

**Tal Sela**, Synthetic and mechanistic study of organic reactions in the aqueous media [Pub 835]

**Matthew D. Smarte**, Cavity ringdown spectroscopy of chlorine-substituted peroxy radicals: Reaction kinetics with nitric oxide [Pub 592]

**Stephanie Spahr**, Tracking N-nitrosodimethylamine formation during water disinfection processes by multi-element isotope fractionation analysis [Pub 275]

**Stephen Timko**, Photo-reactivity of natural dissolved organic matter from fresh to marine waters in the Florida Everglades, USA [Pub 494]

**Chih-ping Tso**, Carboxylic ligand-enhanced degradation of polychlorinated compounds with zerovalent iron [Pub 764]

**Habibullah Uzun**, Temporal patterns of NDMA precursors' removal at drinking water treatment plants [Pub 469]

**Hanting Wang**, Role of diverse microbial communities in MS2 bacteriophage removal in biosand filters [Pub 132]

**Feng Xiao**, Interactions of biochars of varied meso- and micro- porosities with charged and neutral heteroaromatic compounds including a triazine herbicide [Pub 69]

**Yi Yang**, Comparison of the efficiency of contaminant degradation by sulfate and hydroxyl radical-based advanced oxidation processes (AOPs) in saline water [Pub 463]

**Yanyan Zhang**, Bioaccessibility of polycyclic aromatic hydrocarbons (PAHs) associated with soot, assessed by an in vitro gastrointestinal digestion model with an absorptive sink [Pub 79]