Pacifichem 2015:
http://www.pacifichem.org/technical-program/symposium-proposal-submission/

Symposium 1 Title: "Nanointerfaces and their Role in Environmental Systems and Processes."

The "nanointerface"! This is where the action takes place!
This symposium will focus specifically on nanointerfaces and their role in environmental systems and processes. The properties of the nanointerface govern in many cases and at a large extent the behavior of nanoparticles, nanomaterials, nanosystems and nanodevices. While in many cases the core of a nanoparticle plays a role (i.e., shell-core magnetic nanoparticles, photoinduced dynamics in photocatalytic nanoparticles), many subsequent interactions take place at the interface. When properly tailor-designed, modified, and controlled, such nanointerfaces may facilitate a desired action (i.e., enhanced adsorption, enhanced oxidation) or minimize an unwanted effect (i.e., minimize aggregation by suitable coatings on nanoparticles).

In this symposium, which is dedicated to interfacial phenomena of the nanointerface with focus on environmental systems and processes, we welcome papers for **oral or poster presentations on topics** that include (but not limited to) the following:

(i) The interface of engineered, incidental, and naturally occurring nanomaterials and their properties. This includes ordered and non-ordered interfaces.
(ii) Properties of nanointerfaces of composite nanomaterials, including those used in devices (i.e., nanomaterials used in sensors, as membrane fillers, or in food packaging).
(iii) Properties of external and internal nanointerfaces (i.e., behavior of core-shell quantum dots, corroded zero valent iron nanoparticles, internal and external surface of nanotubes)
(iv) Redox processes at nanointerfaces.
(v) Adsorption, sorption, absorption, reactive sites at nanointerfaces and associated phenomena.
(vi) Reactive species generated at the nanointerfaces (i.e., identification, quantification, reactions).
(vii) Chemical, photochemical, and electrochemical transformations at interfaces.
(viii) The role of interface on nanomaterial formation, growth, aggregation, transport, dissolution, and morphology transformation.
(ix) The role of the nanointerface on nanomaterial-biological interactions and processes: disinfection, toxicity, bioavailability, and biosorption.
(x) The role of the nanointerface in complex environmental systems. The role of environmental media parameters (i.e., natural organic matter, pH, ionic strength, redox potential, organic and inorganic constituents) on nanomaterial properties and interactions.

(xi) Approaches to modify the nanointerface to control behavior of nanomaterials in environmental systems (i.e., role of coatings, role of doping, role of functionalization, role of annealing temperature).
(xii) Nanointerfaces of porous and dense nanomaterials, and nanostructures of materials and their environmental applications.
(xiii) Role of nanomaterial interface as guidance in the development of analytical methods to detect, characterize, and quantify nanomaterials in environmental media.
(xiv) Evolution of the nanointerface during environmental processes.

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