

## Research Topics NOT Supported by ACS PRF

The phrase "fundamental research" is interpreted to **exclude** research that aims to develop new experimental/theoretical techniques, analytical methods, and devices, as well as research focused on applications or patentable research. Accordingly, ACS PRF does **not** consider proposals in the areas of biomedical, pharmaceutical or drug-delivery studies including synthesis of compounds for biological evaluation; environmental or remediation studies including anthropogenic effects of petroleum; groundwater hydrology; micro- and nanofluidics; sensors; nanoscience not directly related to petroleum-derived materials; quantum dots; semiconductors; superconductors; low temperature phenomena; subatomic physics; **solar power, which includes photovoltaics and solar cells**; and social, economics or history research. In addition, most research on bio-systems are excluded, which includes whole-cell, organelle, tissue, organ, or whole organism studies; metabolic pathway research; biopolymers including blends and block; biofuels and biomass; and biosensors.

The only exception to the above is enzymes in non-aqueous media working on petroleum-based substrates. If you have a question on whether or not your research is within the scope of the ACS Petroleum Research Fund please call 202-872-4481 and ask to speak to a Program Manager.

### PRF Advisory Board Committees and Areas of Research Support

Committee	Discipline and Areas of Research Support
1	<b>Synthetic Organic Chemistry</b> Synthetic organic methodology, organic and organometallic reagents and catalysts, asymmetric synthetic methods, "green" chemical synthesis.
2	<b>Geochemistry</b> Isotope geochemistry, organic and sedimentary geochemistry, marine geochemistry, diagenesis
3	<b>Inorganic Chemistry</b> Coordination and organometallic chemistry, homogeneous catalysis, small soluble clusters, new ligands, main group, transition metal, and lanthanide and actinide metal chemistry.
4	<b>Physical Organic Chemistry</b> Reaction mechanisms, kinetics, photochemistry, organic radical chemistry, reactive organic species.
5	<b>Surface Science</b> Heterogeneous catalysis, thin films, porous materials, adsorption and diffusion, fuel cells, and AFM, STM, XPS, PES, CVD and related techniques.
6	<b>Chemical Physics/Physical Chemistry</b> Theoretical chemistry including quantum/statistical mechanics, and molecular dynamics; optical, laser, ultrafast, and mass spectroscopies; and gas phase reactions.
7	<b>Polymer Science</b> Synthesis, characterization, and properties of polymers and dendrimers; organized media; and liquid crystals.
8	<b>Geology and Geophysics</b> Stratigraphy, sedimentology, paleontology, geomorphology, structural geology, flow through porous media, geophysics.
9	<b>Chemical and Petroleum Engineering</b> Chemical and petroleum engineering studies, process and operations control and design, fluid flow and multiphase flow dynamics, and related computations.
10	<b>Materials Science</b> Materials for efficient generation, storage or conversion of energy; synthesis, characterization, bulk properties and solid-state chemistry of these materials.