

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; pollution, or environmental remediation studies including anthropogenic effects of petroleum; micro- and nanofluidics; sensors; nanoscience not directly related to petroleum-derived materials; quantum dots; semiconductors; superconductors; low temperature phenomena; subatomic physics; **all forms of solar energy, photovoltaics, batteries for renewable energy, hydrogen fuel cells, hydrogen storage, hydrogen generation from non-petroleum sources, CO₂ capture, wind farms**; 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.

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 **before** submitting a proposal.

PRF Advisory Board Committees and Areas of Research Support

Committee	Discipline and Areas of Research Support
1	Synthetic Organic Chemistry Organic synthesis, including organic and organometallic reagents and catalysts, and asymmetric synthesis.
2	Geochemistry Isotope, organic and sedimentary geochemistry, marine geochemistry, and diagenesis.
3	Inorganic Chemistry Coordination and organometallic chemistry, homogeneous catalysis, small soluble clusters, new ligands, main group, transition metal, and lanthanide and actinide metal chemistry.
4	Physical Organic Chemistry Reaction mechanisms, kinetics, photochemistry, organic radical chemistry, reactive organic species, enzymes in non-aqueous media working on petroleum substrates.
5	Surface Science Surface phenomena and reactions, heterogeneous catalysis, and characterization of surfaces directly relevant to petroleum and petroleum products.
6	Chemical Physics/Physical Chemistry Theoretical chemistry, quantum/statistical mechanics, and molecular dynamics; optical, laser, ultrafast, and mass spectroscopies; and gas phase reactions.
7	Polymer Science Synthesis, characterization, and properties of polymers and dendrimers; organized media; and liquid crystals.
8	Geology and Geophysics Stratigraphy, sedimentology, paleontology, geomorphology, structural geology, flow through porous media, and geophysics.
9	Chemical and Petroleum Engineering Engineering studies including process and operations control and design, fluid flow and multiphase flow dynamics, and related computations.
10	Materials Science Synthesis, characterization, bulk properties and solid-state chemistry of materials directly relevant to petroleum, or to conversion of petroleum and petroleum products.