

Research Topics NOT Supported by ACS PRF

The phrase "fundamental research" is interpreted to **exclude** research that aims to develop new experimental or 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, anthropogenic effects of petroleum; environmental engineering; groundwater hydrology; paleoclimatology studies; microfluidics and nanofluidics; sensors; nanotubes and graphene; nanoscience not directly related to petroleum-derived materials; quantum dots; semiconductors and superconductors; low temperature phenomena; subatomic physics; all forms of solar energy; photovoltaics; thermoelectrics; luminescent materials; batteries; wind energy and wind farms; hydrogen storage, hydrogen generation from non-petroleum sources; fuel cells; CO₂ capture and sequestration; pipeline corrosion, coatings, and materials; hydrodesulfurization; and social, economics, or history research.

Research on biosystems is also excluded, including whole-cell, organelle, tissue, organ, or whole organism studies; metabolic pathway research; biopolymers including blends and block; biofuels, 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 organic materials derived from petroleum sources.
8	Geology and Geophysics Stratigraphy, sedimentology, paleontology, geomorphology, structural geology, 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 petroleum materials.