

Research Grants for PhD students from the China Scholarship Council

Information Form (please read the guidelines carefully on the website www-csc.utt.fr)

Supervisor's name : Given names :

Status (prof., assistant prof., ...) :

Laboratory : Website address :

Institution : Website address :

Scientific competence of the supervisor:

Supervision will be ensured by Dr J. Bernard who combines great expertise in organic and supramolecular chemistry, polymer chemistry and physics in order to design a new generation of light-adaptive materials with cutting-edge applications in the fields of smart colloids, biomimetic materials and hydrogels.

Two major publications in the field proposed for the PhD :

1.
2.

Website address of the personal page :

Supervisor's email :

Description of the research work proposed for a PhD **Topic # (see list) :**

Title :

Subject :

Our group is looking for a highly motivated PhD candidate to develop novel strategies toward the design of light-sensitive supramolecular complexes and the conception of adaptive materials thereof. The candidate will pursue several objectives, such as mastering the delicate interplay between the dynamics of molecular machinery and supramolecular associations with respect to the light source at the molecular and macroscopic scales. This original project hosted jointly by IMP@INSA will not only allow solving pivotal challenges in supramolecular chemistry, translating geometrical changes of photoswitches into light-triggered transitions for the materials (gel/sol or stiff/tough) but will also lead to a number of cutting-edge applications in the fields of colloids, biomimetic materials and hydrogels.

Keywords :

Expected collaborations :

Background required from the applicant :

Existence of a PDF file detailing the proposal ("yes" or "no") :

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