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Research in one sentence

Contributing to the field of Organometallic Chemistry on fundamental and applied levels, by investigating new sustainable ways to design the light emitting materials with a particular emphasis on the development of energy efficient materials

What is your uniqueness in your research?

We work on the energy efficient materials for nanotechnology applications. We are at the forefront of research that unlocks answers to complex questions involving thermally stable blue light emitting organometallic materials. We develop significant innovative N-heterocyclic coinage metal based materials, with a particular focus on the cost effective yet sustainable methodologies. Our primary target is to improve the electroluminescence efficiency and lifetime along with a wide color gamut.

Background of joint research with Japanese Co-PI

My Co-PI is Prof. Osamu Tsutsumi from Ritsumeikan University, and our topic of joint research is Organo Gold(I) Molecules to Materials.

On JICA FRIENDSHIP Project Phase1, I had the chance to visit Japan. Honestly, I was not confident because my lab was not big but when I had 30 mins interaction about research with him, we immediately found that we should collaborate.

What are the tips to have collaborated with Co-PI for so long?

It should be an appreciation for the contribution of each other and mutual respect to sustaining collaboration.



What are benefits from collaboration with Japanese Co-PI?

For my students, it is beneficial to collaborate with other labs overseas in terms of communication and they will know how collaboration will work, and how we can move forward. It is definitely helpful for their career.

Prospects regarding India-Japan collaboration.

I would love to continue our current collaborations sustainably with different funding agencies including local ones. Collaborative research has a lot of benefits for us.

Do you recommend JICA Research Grant under FRIENDSHIP 2.0 to the other faculty members?



Yes, I strongly recommend all faculty members. Actually, I explained this fund to at least 4 faculties.

This fund is beneficial to initiate the collaboration and our lab can get some of the good equipment with the support of the fund. That boosted our collaborations.

If you have any questions, you can ask Japan Desk and will get good support.