

POSTDOC POSITIONS IN ULTRAFAST VUV AND X-RAY SPECTROSCOPIES OF LIQUIDS

We invite applications to post-doctoral positions in the Physical Chemistry Laboratory at Kyoto University, Japan. The employment term will be three years. The position is immediately available. The starting date is negotiable but no later than April 2016. The salary (>400,000 yen/month) depends on research experience.

The area of research is non-adiabatic chemical dynamics in aqueous solution studied by time and angle-resolved photoelectron spectroscopy of liquid microjets using ultrashort pulses generated by filamentation four-wave mixing and high harmonics generation. We also have a research program on non-adiabatic dynamics of isolated molecules using a velocity map photoelectron imaging and ultrafast X-ray spectroscopy of solution chemistry using a hard X-ray free electron laser (SACLA).

Kyoto is a beautiful old capital of Japan with wonderful cultural activities. Kyoto University is located in the center of this city and well-known for its activities in natural science. We are looking forward to working with you!

References

- "Ultrafast electronic dynamics in polyatomic molecules studied using femtosecond vacuum ultraviolet and x-ray pulses", *J. Phys. B: At. Mol. Opt. Phys.* 47, 124001 (2014)
- "Time and angle resolved photoemission spectroscopy of hydrated electrons near liquid water surface", *Phys. Rev. Lett.* 112, 187603 (2014)
- "Observation of the wavepacket dynamics on the 1B₂(1Σ⁺) state of CS₂ by sub-20 fs photoelectron imaging using 159 nm probe pulses", *J. Chem. Phys.* 142, 074308 (2015)
- "Direct observation of ground state product formation in 1,3-cyclohexadiene ring-opening reaction" *J. Phys. Chem. Lett.*, 6, 343 (2015)
- "Ultraviolet photochemical reaction of [Fe(III)(C₂O₄)₃]³⁻ in aqueous solutions studied by femtosecond time-resolved X-ray absorption spectroscopy using an X-ray free electron laser", *Structural Dynamics* 2, 034901 (2015)

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