#### HOLOGRAPHIC MEMORY, NANOSTRUCTURE SCIENCE



CPEC

# SHINURA LAB.

### [Manipulation of light and matter via their interaction]

### **Centre for Photonics Electronics Convergence**

http://qopt.iis.u-tokyo.ac.jp

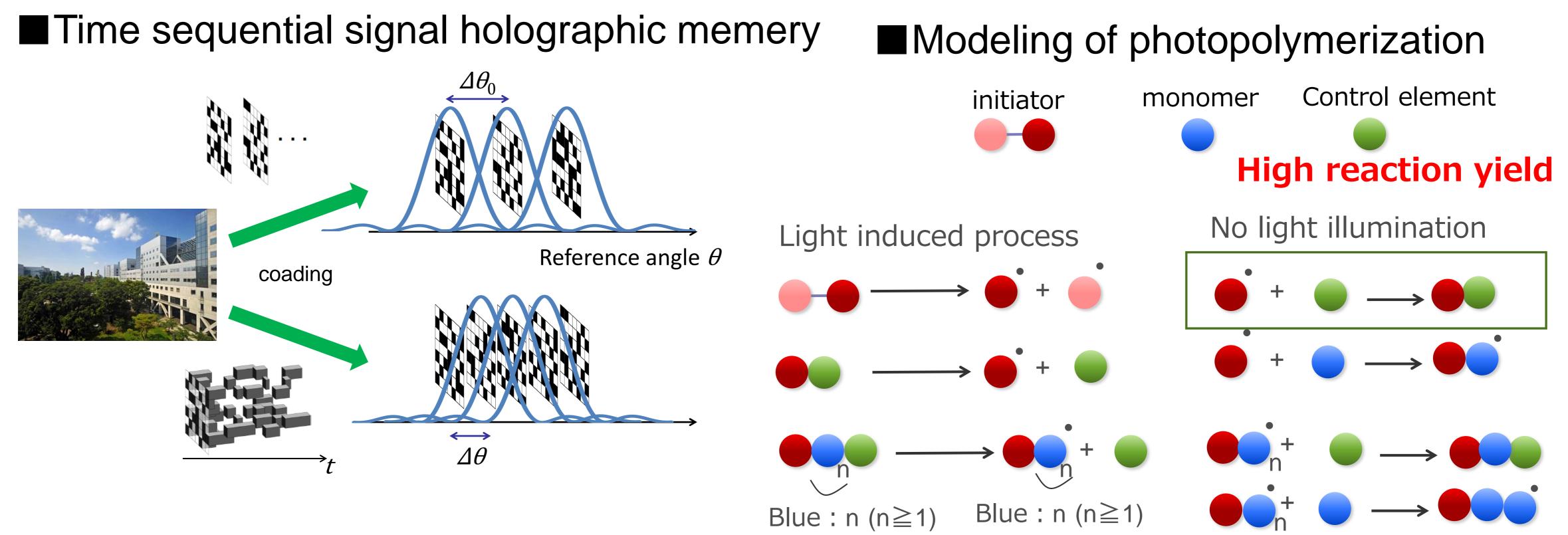
**Applied Nonlinear Optics** 

**Department of Applied Physics** 



## Holographic Memory

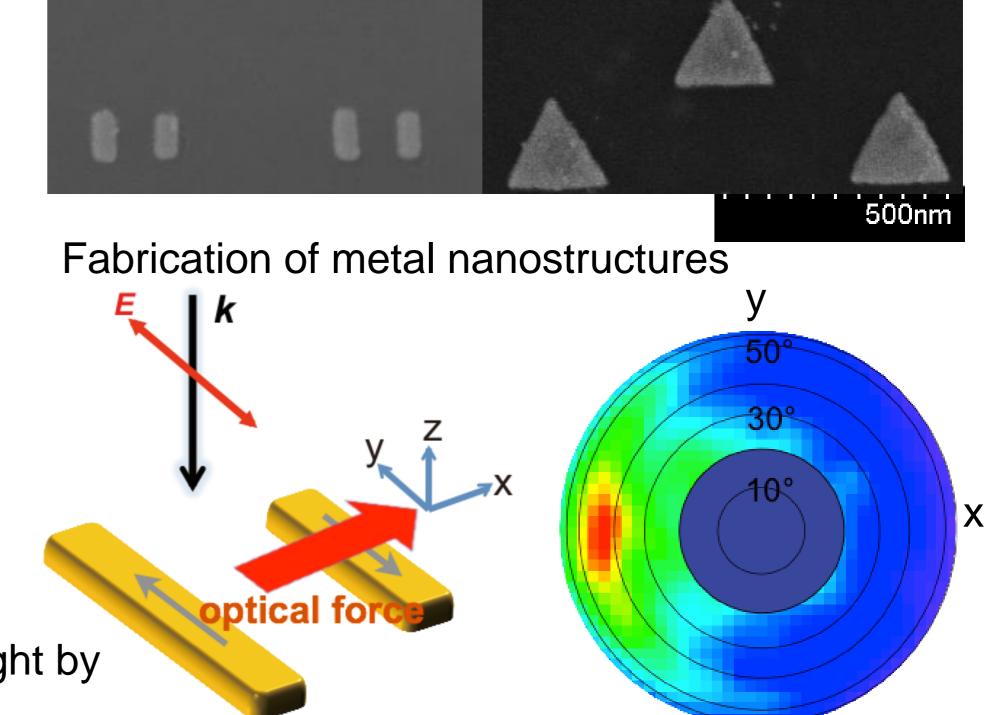
Holographic technology allows multiplex recording and parallel access different from conventional optical memory. Our aim is to develop next generation holographic memory with large capacity and high transfer rate. We research the following projects in both experimental and simulation methods.



### **Control of optical wave by nanostructures**

We investigate controlling optical properties of nanostructures with tailored plasmonic modes.

Furthermore, we also focus on optical force exerted on nanostructures by the plasmonic control and aim for developing a novel method motions various manipulate Of to nanomachines with its plasmonic force.



Directional side scattering of light by plasmonic nanostructures

