

High intensity laser engineering lab.

<Staff> Assoc. Prof. Hideaki Habara (7233, habara@eei.eng.osaka-u.ac.jp)
Scientist: Dr. Gong TAO, Invited Prof. Yasuhiko Hirooka

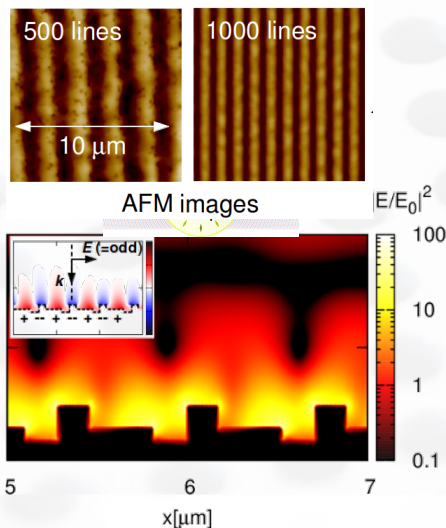
Research subject

We investigate to realize the significant enhancement of the high field intensity by coupling with nanotechnology in order to create the intense ion beam for the application of particle therapy or strong gamma/X-rays for non-destructive inspection, via international collaborative research.

Research items

- Creation of ultra intense field
- Effective generation of high-energy particles
- Fabrication of nanomaterial
- Development of huge scale simulation on HPC

Grating AFM image (up)
Enhanced electric fields by
SPR (bottom)



Nano-porous SEM image /
Field concentration in the void

