

## Research Interests

### PARTICIPANTS' AREAS OF RESEARCH AND TECHNICAL WORK

*	Committee Member
**	Speaker

*Yukio Kawano, RIKEN*



My research interests include (i) THz sensing and imaging (highly sensitive and frequency-tunable THz detector, near-field THz imaging), (ii) scanning probe microscopy (scanning electrometer, scanning noise sensor), and (iii) their application to materials science (carbon nanotube, graphen, low-dimensional semiconductor, *etc.*).

Selected publications:

- (i) Y. Kawano et al., Nature Photonics, advanced online publication (doi:10.1038/nphoton.2008.157).
- (ii) Y. Kawano et al., Appl. Phys. Lett. **84**, 1111 (2004) (Selected for cover page); Appl. Phys. Lett. **87**, 252108 (2005).
- (iii) Y. Kawano et al., Phys. Rev. B **70**, 081308(R) (2004); Phys. Rev. Lett. **95**, 166801 (2005).

(For details, please visit my homepage:

[http://www.riken.jp/lab-www/adv\\_device/kawano/index.html](http://www.riken.jp/lab-www/adv_device/kawano/index.html))