

Publications (Apr.2011 - Mar. 2012)

1. A. Tarun, N. Hayazawa, T. Yano, and S. Kawata, "Tip heating-assisted Raman spectroscopy at elevated temperatures", *Journal of Raman Spectroscopy*, vol. 42, pp. 992-997 (2011).
2. O. Moutanabbir, A. Hähnel, M. Reiche, W. Erfurth, A. Tarun, N. Hayazawa, S. Kawata, F. Naumann, and M. Patzold, "Strain Nano-Engineering: SSOI as a Playground", *The Electrochemical Society Transactions*, vol. 35, pp. 43-50 (2011).
3. A. Tarun, N. Hayazawa, H. Ishitobi, S. Kawata, M. Reiche, and O. Moutanabbir, "Mapping the "Forbidden" Transverse-Optical Phonon in Single Strained Silicon (100) Nanowire", *Nano Letters*, vol. 11, pp. 4780-4788 (2011).
4. K. Furusawa, N. Hayazawa, F. C. Catalan, T. Okamoto, and S. Kawata, "Tip-enhanced broadband CARS spectroscopy and imaging using a photonic crystal fiber based broadband light source", *Journal of Raman Spectroscopy*, accepted.
5. K. Furusawa, N. Hayazawa, T. Okamoto, T. Tanaka, and S. Kawata, "Generation of broadband longitudinal fields for applications to ultrafast tip-enhanced near-field microscopy", *Optics Express*, vol. 19, pp. 25328-25336 (2011).
(Selected for *The Virtual Journal of Biomedical Optics*, vol. 7, Issue 2, (2012))
6. N. Hayazawa, T. Yano, and S. Kawata, "Highly reproducible tip-enhanced Raman scattering using an oxidized and metallized silicon tip as a tool for everyone", *Journal of Raman Spectroscopy*, accepted.
7. Yasuaki Kumamoto, Atsushi Taguchi, Nicholas Isaac Smith, and Satoshi Kawata, "Deep UV resonant Raman spectroscopy for photodamage characterization in cells," *Biomed. Opt. Exp.* 2, 4, 927-936 (2011).
8. Shuhei Uchida, Atsushi Taguchi, Munehisa Mitani, Taro Ichimura, Satoshi Kawata, Kazuya Yamamura, and Nobuyuki Zettsu, "Simple and Versatile Route to High Yield Face-to-Face Dimeric Assembly of Ag Nanocubes and Their Surface Plasmonic Properties," *J. Nanosci. Nanotechnol.* 11, 4, 2890-2896 (2011).

Books, Proceedings

1. N. Hayazawa, A. Tarun, A. Taguchi, and K. Furusawa, "Tip Enhanced Raman Spectroscopy" in *Raman Spectroscopy for Nanomaterials Characterization*, Challa Kumar Ed., pp. 445-476, (Springer, 2012).