

***Selected Publications as of March, 2010**

1. Satoshi Kawata, Atsushi Ono, and Prabhat Verma, "Subwavelength colour imaging with metallic nanolens," *Nature Photonics* 2, 438 (2008). [[full text](#)]
2. Satoshi Kawata, Yasushi Inouye, and Prabhat Verma, "Plasmonics for near-field nano-imaging and superlensing," *Nature Photonics* 3, 388 (2009). [[full text](#)]
3. Taka-aki Yano, Prabhat Verma, Yuika Saito, Taro Ichimura, and Satoshi Kawata, "Pressure-assisted tip-enhanced Raman imaging at a resolution of a few nanometers," *Nature Photonics* 3, 473 (2009). [[full text](#)]
4. Norihiko Hayazawa, Masashi Motohashi, Yuika Saito, Hidekazu Ishitobi, Atsushi Ono, Taro Ichimura, Prabhat Verma, and Satoshi Kawata, "Visualization of localized strain of a crystalline thin layer at the nanoscale by tip-enhanced Raman spectroscopy and microscopy," *J. Raman Spectrosc.* 38, 684-696 (2007). [[full text](#)]
5. Norihiko Hayazawa, Hiroyuki Watanabe, Yuika Saito, and Satoshi Kawata, "Towards atomic site-selective sensitivity in tip-enhanced Raman spectroscopy," *J. Chem. Phys.* 125, 244706 (2006). [[full text](#)]
6. Takuo Tanaka, Atsushi Ishikawa, and Satoshi Kawata, "Unattenuated light transmission through the interface between two materials with different indices of refraction using magnetic metamaterials," *Phys. Rev. B* 73, 12, 125423 (2006). [[full text](#)]
7. Atsushi Ono, Jun-ichi Kato, and Satoshi Kawata, "Subwavelength Optical Imaging through a Metallic Nanorod Array," *Phys. Rev. Lett.* 95, 267407 (2005). [[full text](#)]
8. Atsushi Ishikawa, Takuo Tanaka, and Satoshi Kawata, "Negative Magnetic Permeability in the Visible Light Region," *Phys. Rev. Lett.* 95, 237401 (2005). [[full text](#)]
9. Taro Ichimura, Shintaro Fujii, Prabhat Verma, Taka-aki Yano, Yasushi Inouye, and Satoshi Kawata, "Subnanometric near-field Raman investigation in the vicinity of a metallic nanostructure," *Phys. Rev. Lett.* 102, 186101 (2009). [[full text](#)]
10. Norihiko Hayazawa, Kentaro Furusawa, Atsushi Taguchi, Hiroshi Abe, and Satoshi Kawata, "Tip-enhanced two-photon excited fluorescence microscopy with a silicon tip," *Appl. Phys. Lett.* 94, 193112 (2009). [[full text](#)]

List of publications (Apr. 2005 – Mar. 2011)

1. A. Tarun, N. Hayazawa, T. Yano, and S. Kawata, "Tip heating-assisted Raman spectroscopy at elevated temperatures" *Journal of Raman Spectroscopy*, accepted.
2. Yasuaki Kumamoto, Atsushi Taguchi, Nicholas Isaac Smith, and Satoshi Kawata, "Deep UV resonant Raman spectroscopy for photodamage characterization in cells," *Biomed. Opt. Exp.* 2, 927 (2011).
3. Kentaro Furusawa, Norihiko Hayazawa, and Satoshi Kawata, "Two-beam multiplexed CARS based on a broadband oscillator" *Journal of Raman Spectroscopy*, 41, 840 (2010).
4. Oussama Moutanabbir, Manfred Reiche, Angelika Hähnel, Winfried Erfurth, Ulrich Gösele, Masahi Motohashi, Alvarado Tarun, Norihiko Hayazawa, and Satoshi Kawata, "Nanoscale patterning induced strain redistribution in ultrathin strained Si layers on oxide," *Nanotechnology* 21, 134013 (2010).
5. Alvarado Tarun, Norihiko Hayazawa, and Satoshi Kawata, "Site-Selective Cutting of Carbon Nanotubes by Laser Heated Silicon Tip" *Jpn. J. Appl. Phys.* 49, 025003 (2010).
6. Hidekazu Ishitobi, Issei Nakamura, Norihiko Hayazawa, Zouheir Sekkat, and Satoshi Kawata, "Orientational Imaging of Single Molecules by Using Azimuthal and Radial Polarizations" *The Journal of Physical Chemistry B.* 114, pp. 2565-2571 (2010).

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