

チーム名： 量子オプトエレクトロニクス研究チーム

(1) 原著論文 (accept) を含む / Original Papers

1. T. Uda, A. Ishii, Y. K. Kato, “Single carbon nanotubes as ultrasmall all-optical memories”, ACS Photonics 5, 559 (2018).
2. H. Machiya, T. Uda, A. Ishii, Y. K. Kato, “Spectral tuning of optical coupling between air-mode nanobeam cavities and individual carbon nanotubes”, Appl. Phys. Lett. 112, 021101 (2018).
3. A. Ishii, T. Uda, Y. K. Kato, “Room-Temperature Single-Photon Emission from Micrometer-Long Air-Suspended Carbon Nanotubes”, Phys. Rev. Applied 8, 054039 (2017).
4. N. Higashide, M. Yoshida, T. Uda, A. Ishii, Y. K. Kato, “Cold exciton electroluminescence from air-suspended carbon nanotube split-gate devices”, Appl. Phys. Lett. 110, 191101 (2017).

(2) 著書・解説など / Book Editions, Review Papers

1. 加藤雄一郎, “カーボンナノチューブから一粒の光を取り出す” (第二章 2-4), 藤田静雄 編著『カーボンが創る未来社会—種類の元素の様々な構造に支えられて』(丸善プラネット, 2017) pp.81-92.

(3) 招待講演 / Invited Talks

1. Y. K. Kato, “Single-carbon-nanotube photonics and optoelectronics”, JSAP-OSA Joint Symposia, the 78th JSAP Autumn Meeting 2017, Fukuoka, Japan (September 7, 2017).
2. Y. K. Kato, “Single-carbon-nanotube photonic devices”, Fundamental Optical Processes in Semiconductors (FOPS), Stevenson, Washington, USA (August 30, 2017).
3. Y. K. Kato, “Exciton-exciton annihilation and exciton-carrier interactions in carbon nanotubes”, PKU-UTokyo NanoCarbon Workshop, Tokyo, Japan (July 28, 2017).
4. Y. K. Kato, “Single-carbon-nanotube photonics and optoelectronics”, 2nd Japan-China International Workshop on Quantum Technologies (QTech2017), Tokyo, Japan (June 13, 2017).
5. Y. K. Kato, “Optical Bistability in Air-Suspended Carbon Nanotubes”, 231st Electrochemical Society Meeting, New Orleans, Louisiana, USA (May 31, 2017).