27) Avramenko, Marina; Hokkanen, Matti; Slabodyan, Yuri; Ahlskog, Markus; Levshov, Dmitry

*Role of mechanical van der Waals coupling in G-band splitting of individual multi-wall carbon nanotubes*

Journal of Physical Chemistry C, **126**, 15759 (2022).

26) M. Ahlskog, O. Herranen, J. Leppäniemi, D. Mtsuko,

*Conduction Properties of Semiconductive Multiwalled Carbon Nanotubes*

European Physical Journal B, **95**, Nr. 130 (2022).

25) M. Ahlskog, M.J. Hokkanen, D. Levshov, K. Svensson, A. Volodin, Chris van Haesendonck.  
 *Individual arc-discharge synthesized multiwalled carbon nanotubes probed with multiple measurement*

*techniques*

Journal of Vacuum Science and Technology B, **38**, 042804 (2020).

24) Lahtinen, Elmeri; Kukkonen, Esa; Jokivartio, Joonas; Parkkonen, Joni; Virkajärvi, Jussi; Kivijärvi, Lauri;

Ahlskog, Markus; Haukka, Matti.  
*Preparation of Highly Porous Carbonous Electrodes by Selective Laser Sintering*

ACS Applied Energy Materials, **2**, 1314 (2019).

23) Shao Dongkai, Kosti Tapio, J. Jussi Toppari, Vesa P. Hytönen, Sanna Auer, Markus Ahlskog.

*Surface characteristics control the attachment and functionality of (chimeric) avidin*

Langmuir, **34**, 15335 (2018)

22) Kosti Tapio, Shao Dongkai, Sanna Auer, Jussi-Pekka Tuppurainen, Markus Ahlskog, Vesa P. Hytönen, J.

Jussi Toppari

*DNA-nanoparticle actuator enabling optical monitoring of nanoscale movements induced by electric field*

Nanoscale, **10**, 19297 (2018).

21) Shao Dongkai, Peerapong Yotprayoonsak, Ville Saunajoki, Markus Ahlskog, Jorma Virtanen, Veijo

Kangas, Alexander Volodin, Chris Van Haesendonck, Maria Burdanova, Connor D.W. Mosley, James Lloyd-Hughes.

*Conduction properties of thin films from a water soluble carbon nanotube/hemicellulose complex*

Nanotechnology, **29**, 145203 (2018)

20) Matti J. Hokkanen, Saara Lautala, Emmanuel Flahaut, Markus Ahlskog

*Experimental studies on the detachment of multiwalled carbon nanotubes by a mobile liquid interface*

Colloids and Surfaces A, **533**, 109 (2017)

19) Matti J. Hokkanen, Saara Lautala, Shao Dongkai, Tuomas Turpeinen, Juha Koivistoinen, Markus Ahlskog

*On-chip purification via liquid immersion of arc-discharge synthesized multiwalled carbon nanotubes*

Applied Physics A, **122**, 634 (2016)

18) Matti J. Hokkanen, Roope Lehto, Jouni Takalo, Juha Salmela, Sanna Haavisto, Alexander Bykov, Risto

Myllylä, Jussi Timonen, Markus Ahlskog

*Depletion of carbon nanotube depositions and tube realignment in the spreading of sessile drops*

Colloids and Surfaces A, **482**, 624 (2015)

17) D. Mtsuko, A. Koshio, M. Yudasaka, S. Iijima, M. Ahlskog

*Measurements of the Transport Gap in Semiconducting Multiwalled Carbon Nanotubes with Varying*

*Diameter and Length.*

Physical Review B. **91**, 195426 (2015)

16) Peerapong Yotprayoonsak, Géza R. Szilvay, Päivi Laaksonen, Markus B. Linder, and Markus Ahlskog

*The effect of Hydrophobin protein on conductive properties of Carbon Nanotube Field-Effect Transistors;*

*First study on sensing mechanisms*

Journal of Nanoscience and Nanotechnology (JNN), 15, 2079 (2015).

15) Peerapong Yotprayoonsak, Deep Talukdar, and Markus Ahlskog

*Carbon nanotube field-effect devices with asymmetric electrode configuration by contact geometry*

Journal of Applied Physics, **115**, 214302 (2014).

14) D. Talukdar, O. Herranen, M. Ahlskog  
 *Ultra-Low Noise Multiwalled Carbon Nanotube Transistors*

Carbon, **76**, 71 (2014).

13) D. Talukdar, P. Yotprayoonsak, O. Herranen and M. Ahlskog

*Linear current fluctuations in the power-law region of metallic carbon nanotubes*

Physical Review B. **88**, 125407 (2013).

12) M.J. Huttunen, O. Herranen, A. Johansson, H. Jiang, P.R. Mudimela, P. Myllyperkiö, G. Bautista, A. G.

Nasibulin, E. I. Kauppinen, M. Ahlskog, M. Kauranen, M. Pettersson

*Measurement of optical second-harmonic generation from an individual single-walled carbon nanotube*

New Journal of Physics **15**, 083043 (2013)

11) A. Juutilainen, A. Volodin, M. Ahlskog

*Measurements of tunneling conduction to carbon nanotubes and its sensitivity to oxygen gas*

Physical Review B. **86**, 045405 (2012)

10) P. Yotprayoonsak, K. Hannula, T. Lahtinen, M. Ahlskog, A. Johansson

*Liquid-phase alkali-doping of individual carbon nanotube field-effect transistors observed in real-time*

Carbon **49**, 5283 (2011).

9) P. Myllyperkiö, O. Herranen, J. Rintala, H. Jiang, P. R. Mudimela, Z. Zhu, A. G. Nasibulin, A. Johansson, E. I. Kauppinen, M. Ahlskog, M. Pettersson

*Femtosecond four-wave-mixing spectroscopy of suspended individual semiconducting single-walled carbon nanotubes*

ACS Nano. **4**, 6780 (2010).

8) D. Mtsuko, M. Ahlskog, R. Menon

*Nonlinear transport in hybrid polypyrrole-gold nanostructures*

Journal of Nanoscience and Nanotechnology, **10**, 8185 (2010)

7) P.J. Koppinen, J.T. Lievonen, M. Ahlskog, I.J. Maasilta

*Strain sensing with sub-micron Al-AlOx-Al tunnel junctions*

Review of Scientific Instruments, **81**, 023901 (2010)

6) J. Rintala, O. Herranen, A. Johansson, M. Ahlskog, M. Pettersson

*Raman spectroscopy and low temperature transport measurements of individual single walled carbon*

*nanotubes with varying thickness*

Journal of Physical Chemistry C **113**, 15398 (2009)

5) J. Lievonen and M. Ahlskog

*Lateral Force Microscopy of Multiwalled Carbon Nanotubes*

Ultramicroscopy. **109**, 825 (2009).

4) M. Ahlskog, O. Herranen, A. Johansson, J. Leppäniemi, and D. Mtsuko

*Electronic transport in intermediate sized carbon nanotubes*

Physical Review B, **79**, 155408 (2009).

3) D. Mtsuko, A. Avnon, J. Lievonen, R. Menon, and M. Ahlskog

*Electrochemical deposition of polypyrrole nanolayers on discontinuous ultrathin gold*

*films*

Nanotechnology, **19**, 125304 (2008).

2) J. Lievonen, K. Ranttila, and M. Ahlskog

*Environmental chamber for an atomic force microscope*

Review of Scientific Instruments, **78**, 043703 (2007).

1) T. Walkeajärvi, J. Lievonen, M. Ahlskog, J. Åström, A. Koshio, M. Yudasaka, and S. Iijima

*Bending of multiwalled carbon nanotubes over gold lines*

Journal of Applied Physics, **98**, 104301 (2005).