

## Dr. Akimitsu Narita

Project Leader



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### Scientific Curriculum

08.2014 – present	Project Leader, MPIP, Mainz, Germany (supervision: Prof. Klaus Müllen)
04.2014 – 07.2014	Research Associate, MPIP, Mainz, Germany (supervision: Prof. Klaus Müllen)
04.2010 – 03.2014	Doctoral Researcher, MPIP, Mainz, Germany (supervision: Prof. Klaus Müllen)
03.2013	Visiting Researcher, University College London, UK (supervision: Prof. Franco Cacialli)
05.2011	Visiting Researcher, Institut de Science et d'Ingénierie Supramoléculaires (ISIS) University of Strasbourg, France (supervision: Prof. Paolo Samorí)
04.2008 – 03.2010	Master Thesis Project, Department of Chemistry, The University of Tokyo, Japan (supervision: Prof. Eiichi Nakamura)
04.2007 – 03.2008	Bachelor Thesis Project, Department of Chemistry, The University of Tokyo, Japan (supervision: Prof. Eiichi Nakamura)
04.2004 – 03.2010	Chemistry Studies, The University of Tokyo, Japan

### Awards and Fellowship

11.2014	Runner-Up, Marie Skłodowska-Curie Actions Prizes 2014 in the prize category “Promising Research Talent”
05.2010 – 04.2013	Marie Curie fellowship as an Early-Stage Researcher in Initial Training Network “SUPERIOR”
10.2012	2 <sup>nd</sup> Place Best Poster Award, MPIP Poster Day 2012

### 10 most important publications:

1. U. Zschieschang, H. Klauk, I. B. Müller, A. J. Strudwick, T. Hintermann, M. G. Schwab, A. Narita, X. Feng, K. Müllen, R. T. Weitz, Electrical characteristics of field-effect transistors based on individual chemically synthesized graphene nanoribbons. *Adv. Electron. Mater.* **2015**, *Early View*, DOI: 10.1002/aelm.201400010.
2. A. Narita, X. Feng, K. Müllen, Bottom-up synthesis of chemically precise graphene nanoribbons. *Chem. Rec.*, **2015**, *15*, 295-309.
3. A. Narita, X. Feng, Y. Hernandez, S. A. Jensen, M. Bonn, H. Yang, I. A. Verzhbitskiy, C. Casiraghi, M. R. Hansen, A. H. R. Koch, G. Fytas, O. Ivasenko, B. Li, K. S. Mali, T. Balandina, S. Mahesh, S. De Feyter, K. Müllen, Synthesis of structurally well-defined and liquid-phase-processable graphene nanoribbons. *Nature Chem.*, **2014**, *6*, 126–132. (Highlighted in News and Views, *Nature Chem.*, **2014**, *6*, 91–92.)

4. A. Narita, I. A. Verzhbitskiy, W. Frederickx, K. S. Mali, S. A. Jensen, M. R. Hansen, M. Bonn, S. De Feyter, C. Casiraghi, X. Feng, K. Müllen, Bottom-up synthesis of liquid-phase-processable graphene nanoribbons with near-infrared absorption. *ACS Nano*, **2014**, *8*, 11622–11630.
5. A. Abbas, G. Liu, A. Narita, M. Orosco, X. Feng, K. Müllen, C. Zhou, Deposition, characterization, and thin-film-based chemical sensing of ultra-long chemically synthesized graphene nanoribbons. *J. Am. Chem. Soc.*, **2014**, *136*, 7555–7558. (Highlighted in Spotlights on Recent *JACS* Publications, *J. Am. Chem. Soc.*, **2014**, *136*, 8143–8144.)
6. M. El Gemayel, A. Narita, L. F. Dössel, R. S. Sundaram, A. Kiersnowski, W. Pisula, A. C. Ferrari, E. Orgiu, X. Feng, K. Müllen, P. Samorì, Graphene nanoribbons blends with P3HT: towards enhanced device performance. *Nanoscale*, **2014**, *6*, 6301–6314.
7. Y.-Z. Tan, B. Yang, K. Parvez, A. Narita, S. Osella, D. Beljonne, X. Feng, K. Müllen, Atomically precise edge chlorination of graphenes. *Nat. Commun.*, **2013**, *4*, 2646.
8. S. A. Jensen, R. Ulbricht, A. Narita, X. Feng, K. Müllen, T. Hertel, D. Turchinovich, M. Bonn, Ultrafast photoconductivity of graphene nanoribbons and carbon nanotubes. *Nano Lett.*, **2013**, *13*, 5925–5930.
9. M. G. Schwab, A. Narita, Y. Hernandez, T. Balandina, K. Mali, S. De Feyter, X. Feng, K. Müllen, Structurally defined graphene nanoribbons with high lateral extension. *J. Am. Chem. Soc.*, **2012**, *134*, 18169–18172.
10. S. Osella, A. Narita, M. Schwab, Y. Hernandez, X. Feng, K. Müllen, D. Beljonne, Graphene nanoribbons as low-band-gap donor materials for organic photovoltaics: Quantum-chemical aided design. *ACS Nano*, **2012**, *6*, 5539–5548.