

## Publications

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### Submitted

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- D. Koutsouras\*, **E. Bihar\***, J. Fairfield, M. Saadaoui, G. G. Malliaras, Green, Materials for Electronics, Fabrication approaches for conducting polymer devices, submitted to *Advanced Materials Technologies*.
- **E. Bihar, T. Roberts**, E. Ismailova, T. Hervé, G.G. Malliaras, J.B. De Graaf, M. Saadaoui, ***Customizable printed Tattoo – Textile electrodes for ElectroMyoGraphy***, submitted to *Scientific Reports*

- **Published in peer-reviewed journal**

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#### 2017

- **Bihar, E., Roberts, T.**, Ismailova, E., Saadaoui, M., Isik, M., Sanchez?Sanchez, A., ... & Malliaras, G. G. (2017). Fully Printed Electrodes on Stretchable Textiles for Long?Term Electrophysiology. *Advanced Materials Technologies*, 2(4).
- **Bihar, E., Roberts, T.**, Saadaoui, M., Hervé, T., De Graaf, J. B., & Malliaras, G. G. (2017). Inkjet?Printed PEDOT: PSS Electrodes on Paper for Electrocardiography. *Advanced healthcare materials*, 6(6).
- ElMahmoudy, M., Inal, S., Charrier, A., **Uguz, I.**, Malliaras, G. G., & Sanaur, S. (2017). Tailoring the Electrochemical and Mechanical Properties of PEDOT: PSS Films for Bioelectronics. *Macromolecular Materials and Engineering*.

#### 2016

- **Roberts T.**, De Graaf J.B., Nicol C., **Hervé T.**, Fiocchi M., Sanaur S. (2016). Flexible Inkjet-Printed Multielectrode Arrays for Neuromuscular Cartography. *Advanced Healthcare Materials*, Volume 5, Issue 12, 1462–1470
- **E. Bihar**, Y. Deng, T. Miyake, M. Saadaoui, G.G. Malliaras, and M. Rolandi, “A disposable paper breathalyzer with an alcohol sensing organic electrochemical transistor”, *Sci. Rep.* 6, 27582 (2016).
- M. Papaiordanidou, S. Takamatsu, S. Rezaei?Mazinani, **T. Lonjaret**, A. Martin, and E. Ismailova, “Cutaneous Recording and Stimulation of Muscles Using Organic Electronic Textiles”, *Adv. Healthcare Mater.* 5, 2001 (2016).
- M. Braendlein, **T. Lonjaret, P. Leleux**, J.?M. Badier, and G.G. Malliaras, “Voltage Amplifier Based on Organic Electrochemical Transistor”, *Adv. Sci.* 4, 1600247 (2016).
- W. Lee, D. Kim, J. Rivnay, N. Matsuhisa, **T. Lonjaret**, T. Yokota, H. Yawo, M. Sekino, G.G. Malliaras, and T. Someya, “Integration of Organic Electrochemical and Field?Effect Transistors for Ultraflexible, High Temporal Resolution Electrophysiology Arrays”, *Adv.*

Mater. 28, 9722 (2016).

- S. Takamatsu, **T. Lonjaret**, E. Ismailova, A. Masuda, T. Itoh, and G. G. Malliaras, "Wearable Keyboard Using Conducting Polymer Electrodes on Textiles", Adv. Mater. 28, 4485 (2016).
- P. Gkoupidenis, D.A. Koutsouras, **T. Lonjaret**, J.A. Fairfield, and G.G. Malliaras, "Orientation selectivity in a multi-gated organic electrochemical transistor", Sci. Rep. 6, 27007 (2016).
- **I. Uguz**, M. Ganji, A. Hama, A. Tanaka, S. Inal, A. Youssef, R.M. Owens, S. Dayeh, and G.G. Malliaras, "Autoclave Sterilization of PEDOT: PSS Electrophysiology Devices", Adv. Healthcare Mater. 5, 3094 (2016).
- A. Jonsson, S. Inal, **I. Uguz**, A.J. Williamson, L. Kergoat, J. Rivnay D. Khodagholy, M. Berggren, C. Bernard, G.G. Malliaras, and D.T. Simon, "Bioelectronic neural pixel: Chemical stimulation and electrical sensing at the same site", Proc. Natl. Acad. Sci. 113, 9440 (2016).
- S. Inal, J. Rivnay, A. I. Hofmann, **I. Uguz**, M. Mumtaz, D. Katsigiannopoulos, C. Brochon, E. Cloutet, G. Hadziioannou, and G. G. Malliaras, "Organic electrochemical transistors based on PEDOT with different anionic polyelectrolyte dopants", J. Polym. Sci. Part B: Polym. Phys. 54, 147 (2016).
- W.Lee, D. Kim, J. Rivnay, N. Matsuhisa, T. Lonjaret, T. Yokota, H. Yawo, M. Sekino, G. Malliaras, T. Someya « Field-Effect Transistors: Integration of Organic Electrochemical and Field-Effect Transistors for Ultraflexible, High Temporal Resolution Electrophysiology Arrays » Advanced Materials 28(44):9869-9869 (2016)