Bio

BIO
Bioelectronics, neurostimulation, biosensors, conducting polymers, microfabrication.

STANFORD ADVISORS
- Alberto Salleo, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS
- The impact of hydrogen peroxide production in OECTs for in vitro applications JOURNAL OF MATERIALS CHEMISTRY C
  Lubrano, C., Bettucci, O., Dijk, G., Salleo, A., Giovannitti, A., Santoro, F.
  2023

- PEDOT:PSS-coated platinum electrodes for neural stimulation. APL bioengineering
  Dijk, G., Pas, J., Markovic, K., Scanca, J., O'Connor, R. P.
  2023; 7 (4): 046117

- Fabrication and in vivo 2-photon microscopy validation of transparent PEDOT:PSS microelectrode arrays. Microsystems & nanoengineering
  Dijk, G., Kaszas, A., Pas, J., O'Connor, R. P.
  2022; 8: 90

- Electroporation Microchip With Integrated Conducting Polymer Electrode Array for Highly Sensitive Impedance Measurement IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING
  Dijk, G., Poulkouras, R., O'Connor, R. P.
  2022; 69 (7): 2363-2369

- PEDOT:PSS-Coated Stimulation Electrodes Attenuate Irreversible Electrochemical Events and Reduce Cell Electroporomeabilization ADVANCED MATERIALS INTERFACES
  Dijk, G., Ruigrok, H. J., O'Connor, R. P.
  2021; 8 (19)

- Influence of PEDOT:PSS Coating Thickness on the Performance of Stimulation Electrodes ADVANCED MATERIALS INTERFACES
  Dijk, G., Ruigrok, H. J., O'Connor, R. P.
  2020; 7 (16)

- Stability of PEDOT:PSS-Coated Gold Electrodes in Cell Culture Conditions ADVANCED MATERIALS TECHNOLOGIES
  Dijk, G., Rutz, A. L., Malliaras, G. G.
  2020; 5 (3)