

# Stanford

---



## Gerwin Dijk

Postdoctoral Scholar, Materials Science and Engineering

### 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 <i>in vitro</i> 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., Scancar, 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., Poulikouras, R., OConnor, R. P.  
2022; 69 (7): 2363-2369
- **PEDOT:PSS-Coated Stimulation Electrodes Attenuate Irreversible Electrochemical Events and Reduce Cell Electroporabilization** *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)