

Total number of peer-reviewed journal publications and conference proceedings: 45

1. Alatraktchi, A. F; Bakmand, T.; Dimaki, M.; Svendsen, W.E. Novel Membrane-Based Electrochemical Sensor for Real-Time Bio-Applications, *Sensors* **2014**, *14*(11), 22128-22139
2. Zór, K. ; Heiskanen, A. ; Caviglia, C. ; Vergani, M.; Landini, E.; Shah, F.; Carminati, M.; Martinez-Serrano, A.; Ramos Moreno, T.; Kokaia, M.; Benayahu, D.; Keresztes, Zs.; Papkovsky, D.; Wollenberger, U.; Svendsen, W.E.; Dimaki, M.; Ferrari, G.; Raiteri, R.; Sampietro, M.; Dufva, M.; Emneus, J. Compact multifunctional microfluidic platform for exploring cellular dynamics in real-time using electrochemical detection, accepted for publication in RSC Advances
3. Bakmand, T.; Kwasny, D.; Dimaki, M.; Svendsen, W.E. Fabrication and Characterisation of Membrane based Gold Electrodes. Accepted for publication in *Electroanalysis*
4. Kwasny, D.; Dimaki, M.; Andersen, K.B.; Zulfiqar, A.; Tumer, Z.; Svendsen, W.E. In *Nanoscaled biological gated field effect transistors for cytogenetic analysis*, 9th IEEE International Conference on Nano/Micro Engineered and Molecular Systems, IEEE-NEMS 2014, **2014**; pp 130-134.
5. Dimaki, M.; Vergani, M.; Heiskanen, A.; Kwasny, D.; Sasso, L.; Carminati, M.; Gerrard, J.A.; Emneus, J.; Svendsen, W.E. A compact microelectrode array chip with multiple measuring sites for electrochemical applications. *Sensors (Switzerland)* **2014**, *14*, 9505-9521.
6. Kwasny, D.; Mednova, O.; Vedarethinam, I.; Dimaki, M.; Silaharoglu, A.; Tümer, Z.; Almdal, K.; Svendsen, W., A semi-closed device for chromosome spreading for cytogenetic analysis. *Micromachines* **2014**, *5*, 158-170.
7. Taskin, M.B.; Sasso, L.; Dimaki, M.; Svendsen, W.E.; Castillo-Leon, J., Combined cell culture-biosensing platform using vertically aligned patterned peptide nanofibers for cellular studies. *ACS applied materials & interfaces* **2013**, *5*, 3323-3328.
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9. Domigan, L.; Andersen, K.B.; Sasso, L.; Dimaki, M.; Svendsen, W.E.; Gerrard, J.A.; Castillo-Leon, J., Dielectrophoretic manipulation and solubility of protein nanofibrils formed from crude crystallins. *Electrophoresis* **2013**, *34*, 1105-1112.
10. Vergani, M.; Carminati, M.; Ferrari, G.; Sampietro, M.; Amato, L.; Heiskanen, A.; Dimaki, M.; Svendsen, W.E.; Emneus, J. In *Compact potentiostat for cellular electrochemical imaging with 54 parallel channels*, Biomedical Circuits and Systems Conference (BioCAS), 2012 IEEE, 28-30 Nov. 2012, 2012; pp 136-139.
11. Vergani, M.; Carminati, M.; Ferrari, G.; Landini, E.; Caviglia, C.; Heiskanen, A.; Comminges, C.; Zor, K.; Sabourin, D.; Dufva, M., *et al.*, Multichannel bipotentiostat integrated with a microfluidic platform for electrochemical real-time monitoring of cell cultures. *IEEE Transactions on Biomedical Circuits and Systems* **2012**.
12. Kwasny, D.; Vedarethinam, I.; Shah, P.; Dimaki, M.; Silaharoglu, A.; Tumer, Z.; Svendsen, W.E., Advanced microtechnologies for detection of chromosome abnormalities by fluorescent in situ hybridization. *Biomedical Microdevices* **2012**, *14*, 453-460.
13. Dimaki, M.; Vazquez, P.; Aimone, A.; Olsen, M.H.; Sasso, L.; Rodriguez-Trujillo, R.; Svendsen, W.E., Novel 3d microelectrodes and pipettes by wet and dry etching. *Microelectronic Engineering* **2012**, *100*, 33-36.

14. Amato, L.; Keller, S.S.; Heiskanen, A.; Dimaki, M.; Emneus, J.; Boisen, A.; Tenje, M., Fabrication of high-aspect ratio su-8 micropillar arrays. *Microelectronic Engineering* **2012**, *98*, 483-487.
15. Abaddi, M.A.; Sasso, L.; Dimaki, M.; Svendsen, W.E., Fabrication of 3d nano/microelectrodes via two-photon-polymerization. *Microelectronic Engineering* **2012**, *98*, 378-381.
16. Zor, K.; Vergani, M.; Heiskanen, A.; Landini, E.; Carminati, M.; Coman, V.; Vedarethinam, I.; Skafte-Pedersen, P.; Skolimowski, M.; Martinez Serrano, A., *et al.*, Real-time monitoring of cellular dynamics using a microfluidic cell culture system with integrated electrode array and potentiostat. In *Proceedings of International Conference on Miniaturized Systems for Chemistry and Life Sciences*, 2011; pp 1532-1535
17. Vedarethinam, I.; Avaliani, N.; Tønnesen, J.; Hansen, J.; Sabourin, D.; Dimaki, M.; Kokaia, M.; Dufva, M.; Svendsen, W.E.; Emnéus, J., *et al.*, Long-term brain slice culturing in a microfluidic platform, In *Proceedings of International Conference on Miniaturized Systems for Chemistry and Life Sciences*, 2011; pp 1560-1563.
18. Vazquez, P.; Dimaki, M.; Svendsen, W.E. In *Scalloped electrodes for highly sensitive electrical measurements*, Proceedings of IEEE Sensors, 2011; pp 1584-1587.
19. Svendsen, W.E.; Jorgensen, M.; Andresen, L.; Andersen, K.B.; Larsen, M.B.B.; Skov, S.; Dimaki, M. In *Silicon nanowire as virus sensor in a total analysis system*, Procedia Engineering, 2011; pp 288-291.
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21. Shah, P.; Vedarethinam, I.; Kwasny, D.; Andresen, L.; Dimaki, M.; Skov, S.; Svendsen, W.E., Microfluidic bioreactors for culture of non-adherent cells. *Sensors and Actuators, B: Chemical* **2011**, *156*, 1002-1008.
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23. Clausen, C.H.; Dimaki, M.; Panagos, S.P.; Kasotakis, E.; Mitraki, A.; Svendsen, W.E.; Castillo-Leon, J., Electrostatic force microscopy of self-assembled peptide structures. *Scanning* **2011**, *33*, 201-207.
24. Clausen, C.H.; Dimaki, M.; Buckley, S.; Svendsen, W.E., Dielectrophoretic manipulation of human chromosomes in microfluidic channels: Extracting chromosome dielectric properties. *Biochip Journal* **2011**, *5*, 56-62.
25. Vedarethinam, I.; Shah, P.; Dimaki, M.; Tumer, Z.; Tommerup, N.; Svendsen, W.E., Metaphase fish on a chip: Miniaturized microfluidic device for fluorescence in situ hybridization. *Sensors (Basel, Switzerland)* **2010**, *10*, 9831-9846.
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31. Shah, P.J.; Dimaki, M.; Svendsen, W.E. In *A novel passive microfluidic device for preprocessing whole blood for point of care diagnostics*, TRANSDUCERS 2009 - 15th International Conference on Solid-State Sensors, Actuators and Microsystems, 2009; pp 417-420.
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Non peer-reviewed publications and book chapters: 5

1. Lab-on-a-Chip Devices and Micro-Total Analysis Systems – A Practical Guide. Jaime Castillo-Leon and Winnie E. Svendsen (editors), Author of book chapter on microfluidic simulations, *in print*
2. Maria Dimaki, Pranjul Shah, Dorota Kwasny, Jacob Moresco and Winnie E. Svendsen, Microfluidic systems for cell growth and cell migration studies, Proceedings of the 2011 COMSOL Users conference in Stuttgart, 2011
3. M. Dimaki, J. Moresco Lange, P. Vazquez, P. Shah, F. Okkels, and W. Svendsen, Comsol Multiphysics simulations of microfluidic systems for biomedical applications, Proceedings of the 2008 COMSOL Multiphysics Conference, Hannover, 2008
4. Micro and Nano Techniques for the Handling of Biological Samples. Jaime Castillo, Winnie Edith Svendsen and Maria Dimaki (editors and authors of various chapters), ISBN-13: 9781439827437, 2011
5. Dorota Kwasny, Indumathi Vedarethinam, Pranjul Shah, Maria Dimaki and Winnie E. Svendsen (2012). Microtechnologies Enable Cytogenetics, Recent Trends in Cytogenetic Studies - Methodologies and Applications, Padma Tirunilai (Ed.), ISBN: 978-953-51-0178-9, InTech, Available from: <http://www.intechopen.com/books/recent-trends-in-cytogenetic-studies-methodologies-and-applications/microtechnologies-enable-cytogenetics->

Patents and patent applications: 1

1. Gazit, E.; Adler-Abramovich, L.; Castillo, L.J.A.; Dimaki, M.I.; Svendsen, W.E.; Kasotakis, E.; Mitraki, A. Manipulating organic nanostructure e.G. Peptide nanostructure to form electronic device e.G. Diode, by contacting liquid sample having organic nanostructure with arrangement of electrodes, and applying alternating voltage to electrodes. US2011156109-A1, US2011156109-A1 30 Jun 2011 H01L-029/772 201145, 2011.