

Peer-Reviewed Publications (89 in total; 30 from 2009-2014):

89. Hjortø, G.M., Olsen, M.H., Svane, I.M., Larsen, N.B. “Confinement dependent chemotaxis in two-photon polymerized linear migration constructs with highly definable concentration gradients” *Biomed. Microdev.* (2014) accepted.
88. Larsen, E.K.U., Mikkelsen, M.B.L., Larsen, N.B. “Facile photoimmobilization of proteins onto low-binding PEG-coated polymers surfaces” *Biomacromolecules* (2014) **15(3)** 894-899.
87. Olsen, M.O., Hjort, G.M., Hansen, M., Met, Ö., Svane, I.M., Larsen, N.B. “In-chip fabrication of free-form 3D constructs for directed cell migration analysis” (2013) *Lab Chip* **13(24)** 4800-4890.
86. Fischer, L.M., Vásquez, J.L., Gehl, J., Hermann, G.G., Larsen, N.B. “Exploration of two methods for quantitative Mitomycin C measurement in biological samples” (2013) *Biol. Proced. Online* **15** 12.
85. Kafka, J., Skaarup, S., Geschke, O., Larsen, N.B. “Micro-drilling of polymer tubular ultramicroelectrode arrays for electrochemical sensors” (2013) *Sensors* **13(5)** 6319-6333.
84. Ingvarsson, P.T., Schmidt, S.T., Christensen, D., Larsen, N.B., Hinrichs, W.L.J., Andersen, P., Rantanen, J., Nielsen, H.M., Yang, M., Foged, C. “Designing CAF-adjuvanted dry powder vaccines: Spray drying preserves the adjuvant activity of CAF01” (2013) *J. Contr. Rel.* **3(10)** 256-264.
83. Hjortø, G.M., Killerich, K., Kledal, T., Larsen, N.B. “Human CMV chemokine receptor US28 induces 1 migration of cells on a CX3CL1-presenting surface” (2013) *J. Gen. Virol.* **94(5)** 1090-1099.
82. Hansen, M. Hjortø, G.M., Donia, M., Met, Ö., Larsen, N.B., Andersen, M.H., Straten, P. t., Svane, I.M. “Comparison of clinical grade type 1 polarized and standard matured dendritic cells for cancer immunotherapy” (2013) *Vaccine* **31(4)** 639-646.
81. Matchuk, M., Larsen, N.B. “Injection molding of high aspect ratio sub-100 nm nanostructures” (2013) *J. Micromech. Microeng.* **23** 025003.
80. Larsen, E.K.U., Larsen, N.B. “One-step polymer surface modification for minimizing drug, protein, and DNA adsorption in microanalytical systems” *Lab Chip* (2013) **13(4)** 669-675.
79. Lind, J.U., Acikgöz, C., Daugaard, A.E., Andresen, T.L., Hvilsted, S., Textor, M., Larsen, N.B. “Micropatterning of functional conductive polymers with multiple surface chemistries in register” (2012) *Langmuir* **28(15)** 6502-6511.
78. Smith, C.L.C., Lind, J.U., Nielsen, C.H., Christiansen, M.B., Buss, T., Larsen, N.B., Kristensen, A. “Enhanced transduction of photonic crystal dye-lasers for gas sensing via swelling polymer film” (2011) *Opt. Lett.* **36(8)** 1392-1394.
77. Kafka, J., Geschke, O., Skaarup, S., Larsen, N.B. “Fast prototyping of conducting polymer microelectrodes using resistance-controlled high precision drilling” (2011) *Microelec. Eng.* **88(8)** 2589-2592.
76. Daugaard, A.E., Hansen, T.S., Larsen, N.B., Hvilsted, S. ”Microwave assisted click chemistry on a conductive polymer film” (2011) *Synth. Met.* **161(9-10)** 812-816.
75. Lind, J.U., Hansen, T.S., Daugaard, A.E., Hvilsted, S., Andresen, T.L., Larsen, N.B. “Solvent composition directs click-functionalization at the surface or in the bulk of azide-modified PEDOT” (2011) *Macromolecules* **44(3)** 495-501.

74. Selmeczi, D., Hansen, T.S., Met, Ö., Svane, I.M., Larsen, N.B. "Efficient large volume electroporation of dendritic cells through micrometer scale manipulation of flow in a disposable polymer chip" (2011) *Biomed. Microdev.* **13(2)** 383-392.
73. Utko, P., Persson, F., Kristensen, A., Larsen, N.B. "Injection molded nanofluidic chips: Fabrication method and functional tests using single-molecule DNA experiments" (2011) *Lab Chip* **11(2)** 303-308.
72. Hansen, M., Hjortø, G.M., Met, Ö., Jakobsen, M.H., Svane, I.M., Larsen, N.B. "Cell culture plastics with immobilized interleukin 4 for monocyte differentiation" (2011) *J. Biomed. Mater. Res. A* **96(2)** 372-383.
71. Hansen, T.S., Lind, J.U., Daugaard, A.E., Hvilsted, S., Andresen, T.L., Larsen, N.B. "Complex surface concentration gradients by stenciled 'electro click chemistry'" (2010) *Langmuir* **26(20)** 16171-16177.
70. Reisner, W., Larsen, N.B., Silahatoglu, A., Kristensen, A., Tommerup, N., Tegenfeldt, J.O., Flyvbjerg, H. "Single-molecule denaturation mapping of DNA in nanofluidic channels" (2010) *Proc. Nat. Acad. Sci. USA* **107(30)** 13294-13299.
69. Kafka, J., Larsen, N.B., Skaarup, S., Geschke, O. "Fabrication of an all-polymer electrochemical sensor by using a one-step hot embossing procedure" (2010) *Microelec. Eng.* **87(5-8)** 1239-1241.
68. Andresen, K.Ø., Hansen, M., Matschuk, M., Jepsen, S.T., Sørensen, H.S., Utko, P., Selmeczi, D., Hansen, T.S., Larsen, N.B., Rozlosnik, N., Taboryski, R. "Injection molded chips with integrated conducting polymer electrodes for electroporation of cells" (2010) *J. Micromech. Microeng.* **20** 055010.
67. Thamgaard, L., Larsen, N.B., Kristensen, A. "Light-induced local heating for thermophoretic manipulation of DNA in polymer micro- and nanochannels" (2010) *Nano Lett.* **10(3)** 826-832.
66. Matschuk, M., Bruus, H., Larsen, N.B. "Nanostructures for all-polymer microfluidic systems" (2010) *Microelec. Eng.* **87(5-8)** 1379-1382.
65. Hansen, T.S., Selmeczi, D., Larsen, N.B. "Fast prototyping of injection molded polymer microfluidic chips" (2010) *J. Micromech. Microeng.* **20** 015020.
64. Hjortø, G.M., Hansen, M., Larsen, N.B., Kledal, T.N. "Generating substrate bound functional chemokine gradients in vitro" (2009) *Biomaterials* **30(29)** 5305-5311.
63. Hansen, T.S., Daugaard, A.E., Hvilsted, S., Larsen, N.B. "Spatially selective functionalization of conducting polymers by 'Electroclick' chemistry" (2009) *Adv. Mater.* **21(44)** 4483-4486.
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61. Mortensen, N.P., Fowlkes, J.D., Sullivan, C.J., Allison, D.P., Larsen, N.B., Molin, S., Doktycz, M.J. "The effects of colistin on surface ultrastructure and nanomechanics of *Pseudomonas aeruginosa* cells" (2009) *Langmuir* **25(6)** 3728-3733.
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56. Selmeczi, D., Li, L., Pedersen, L.I.I., Nørrelykke, S.F., Hagedorn, P.H., Mosler, S., Larsen, N.B., Cox, E.C., Flyvbjerg, H. "Cell motility as random motion: A review" (2008) *Eur.Phys.J.* **157** 1-15.
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54. Hansen, T.S., Hassager, O., Larsen, N.B., Clark, N.B. "Micropatterning of a stretchable conductive polymer using inkjet printing and agarose stamping" (2007) *Synth.Met.* **127(22-23)** 961-967.
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52. Hansen, T.S., West, K., Hassager, O., Larsen, N.B. "Direct fast patterning of conductive polymers using agarose stamping" (2007) *Adv.Mater.* **19(20)** 3261-3265.
51. Selmeczi, D., Tolic-Nørrelykke, S.F., Schäffer, E., Hagedorn, P.H., Mosler, S., Berg-Sørensen, K., Larsen, N.B., Flyvbjerg, H. "Brownian motion after Einstein and Smoluchowski: Some new applications and new experiments" (2007) *Acta Phys. Polo. B* **38(8)** 2407-2431.
50. Reisner, W., Beech, J.P., Larsen, N.B., Flyvbjerg, H., Kristensen, A., Tegenfeldt, J.O. "Nanoconfinement-enhanced conformational response of single DNA molecules to changes in ionic environment" (2007) *Phys. Rev. Lett.* **99(5)** 058302, 1-4.
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46. Hansen, T.S., West, K., Hassager, O., Larsen, N.B. "Integration of conductive polymer network in non-conductive polymer substrates" (2006) *Synth.Met.* **156(18-20)** 1203-1207.
45. Sørensen, H.S., Larsen, N.B., Latham, J.C., Bornhop, D.J., Andersen, P.E. "Highly sensitive bio-sensing based on interference from light scattering in capillary tubes" (2006) *Appl.Phys.Lett.* **89(15)** 151108.
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Patents and patent applications:

5. Larsen, E.K.J., Larsen, N.B. "A method for applying a coating to a polymeric substrate" (2012) WO 2014/049113-A1.
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