

July 18, 2018

## Curriculum Vitae – Andreas Dahlin

**Full name:** Andreas Bo Oscar Dahlin  
**Title:** Associate Professor  
**Position:** Associate Professor in Nanoscale Chemistry  
**Birthdate:** 7th November 1980  
**Nationality:** Swedish  
**Marital status:** Married, two children born 2008 and 2012.



Affiliation: Div. Applied Chemistry, Dept. of Chemistry and Chemical Engineering, Chalmers University of Technology  
Address: Kemigården 4, 41296 Göteborg, Sweden  
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### Previous Employment

**Assistant Professor** @ Dept. of Physics, Chalmers University of Technology, Göteborg, Sweden. (March 2012 – October 2016)

**CHALMERS**



**Postdoc** @ Div. of Bionanophotonics, Dept. of Applied Physics, Chalmers University of Technology, Göteborg, Sweden.  
Group leader: Prof. **Mikael Käll** (August 2011 – February 2012)

**Postdoc** @ Laboratory of Biosensors and Bioelectronics, Inst. for Biomedical Engineering, Swiss Federal Institute of Technology, Zürich, Switzerland.  
Group leader: Prof. **Janos Vörös** (August 2009 – July 2011)

**ETH**

Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

**PhD Student** @ Div. of Biological Physics, Dept. of Applied Physics, Chalmers University of Technology, Göteborg, Sweden.  
Group leader: Prof. **Fredrik Höök** (October 2007 – July 2009)

**PhD Student** @ Div. of Solid State Physics, Dept. of Physics, Lund University, Lund, Sweden.  
Group leader: Prof. **Lars Samuelsson** (September 2004 – September 2007)



**LUND**  
UNIVERSITY

**PhD Student** @ Div. of Chemical Physics, Dept. of Applied Physics, Chalmers University of Technology, Göteborg, Sweden.  
Group leader: Prof. **Bengt Kasemo** (February 2004 – August 2004)

### Parental Leave

I was taking care of my sons and did not work for a total of at least **13 months** during 2008-2015. I kindly ask that this is taken into account in any evaluation process.

### Academic Degrees

**Associate Professor** – Physics, Chalmers University of Technology, Göteborg, Sweden (**2015**).

**Doctor of Philosophy** – Bioscience with Engineering Physics, Chalmers University of Technology, Göteborg, Sweden (**2008**).

**Licentiate of Science** – Physics, Lund University, Lund, Sweden (**2006**).

**Master of Science** – Bioengineering, Chalmers University of Technology, Göteborg, Sweden (**2004**).

## Quantitative Merits

- 39 research papers.
- 6 review papers.
- 4 book chapters.
- 1 sole author book.
- 2 graduated PhD (me as main supervisor).
- 14 conference talks.
- 16 poster contributions.
- ResearchGate score: 40.35
- Reviewer for 57 scientific journals.
- Reviewer for 7 research funding agencies.
- Principal investigator for 8 external research grants.
- Coapplicant for 2 externally funded research projects.



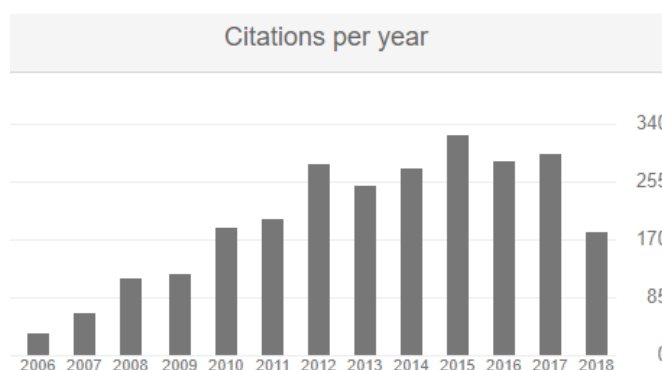
## Qualitative Merits

- Swedish Foundation for Strategic Research *Framework Grant* "Materials for Energy" (2018).
- *Swedish Foundations Starting Grant* 2017 (for receiving rating "A" on ERC application).
- Winner of the *Science Slam* European finals (Brno 2017).
- One of the "100 coolest researchers" in Sweden (list made at the Science Festival 2017).
- Invited speaker at *Biodetection & Biosensors XIII* (Cambridge 2017).
- Invited speaker at *Eurotrode XIII* (Graz 2016).
- Invited speaker at *Dresden Polymer Discussions* (Meissen 2016).
- *Wallenberg Academy Fellow* (2015).
- Invited speaker at *SciX* (Providence 2015).
- Swedish Research Council *Young Researcher Project Grant* (2012).
- EU FP7 People Marie Curie *Career Integration Grant* (2012).
- Swedish Foundation for Strategic Research *Ingvar Carlsson Award* (2011).
- Keynote speaker at the *European Material Research Society* (2011).
- Cover page article of *Small* 2011, Issue 12.
- Swedish Research Council Postdoctoral Scholarship (2009).



## Citation Metrics

**Source: Google Scholar**  
**Entries with citation data: 50**  
**Total number of citations: 2625**  
**H-index: 25**



## Supervision

Student	Degree	Title of thesis	My role	Year
Gustav Emilsson	PhD	Polymer brushes inside nanopores.	Main supervisor	2018
Kunli Xiong	PhD	Electrochromic plasmonic metasurfaces for reflective displays.	Main supervisor	2017
Michael Stürenberg	Licentiate	Investigating nonlinear effects of plasmonics.	Assistant supervisor	2016
Evelyn Röder	Master	Probing the binding behavior of negative curvature sensing proteins with a nanoplasmonic sensor.	Main supervisor	2016
Viktor Ahlberg-Gagnér	Master	Strongly stretched poly(ethylene glycol) brushes on plasmonic nanopores.	Main supervisor	2015
Juliane Junesch	PhD	Novel thin film nanohole devices for plasmonic sensing applications.	Assistant supervisor	2015
Virginia Claudio	Licentiate	Plasmonic nanostructures for biosensing: Considerations for reaching single molecule resolution.	Assistant supervisor	2013
Mudassar Virk	Master	Joule heating of nanohole arrays for control of thermo-responsive polymer brushes.	Main supervisor	2013
Group of 6	Bachelor	Determination of temperature in heated nanostructures.	Main supervisor	2013

## Examination

Student	Degree	University	My role	Year
Miao Zhang	PhD	Royal Institute of Technology Stockholm	Committee member	2018
Irina Zubritskaya	PhD	Chalmers University of Technology	Committee member	2017
Bao D. Ho	Licentiate	Lund University	Opponent	2017
Oliver Olsson	Master	Chalmers University of Technology	Examiner	2017
Da Zhang	PhD	Uppsala University	Committee member	2017
Pinar Frank	PhD	Austrian Institute of Technology Vienna	External examiner	2017
Jin Dai	PhD	Royal Institute of Technology Stockholm	Committee member	2016
Rafael Schoch	PhD	University of Basel	External examiner	2016

## Teaching

- Course responsible for *Surface Engineering* 7.5 ECTS credits (2018-).
- Teaching and course development in *Chemistry and Materials*, 7.5 ECTS credits (2017-).
- Teaching and course development in *Soft Matter Physics*, 7.5 ECTS credits (2013-).
- Teaching in *Biological Physics*, 7.5 ECTS credits (2017-).
- Teaching and course development in *Biotechnical Physics*, 7.5 ECTS credits (2013-2017).
- Teaching and course development in *Tools of Engineering Physics*, 10.5 ECTS credits (2012-2014).
- *As undergraduate*: Teaching in mathematics with focus on programming in MATLAB for first year undergraduate students (144 h total).
- *As Ph.D. student*: Various teaching assignments, mostly lab exercise development and supervision (5% of working time).
- *As postdoc*: Gave lectures on plasmonic biosensors at the Swiss Federal Institute of Technology, the Royal Institute of Technology in Stockholm and Chalmers University of Technology.

## Outreach

- Continuously developing my own research website with a popular science description of my work, recommended reading etc.
- Participated in the local *Science Slam* competition in Göteborg 2017 (2<sup>nd</sup> place out of 8 competitors).
- Participated in the "science roulette" event at the Science Festival in Göteborg 4 times since 2013.
- Voluntary work with activities for children at the Science Festival in Göteborg 2002.



## Utilization

- Founder and board member of *rdot AB* (2017) for plasmonic electronic paper development (6% of shares). Organization number 559092-9831.
- Patent application on *Switchable plasmonic display device*, international PCT application PCT/SE2017/050042, filed 18 January 2017.
- Patent on *Asymmetric nanoplasmonic structures for dual sensing* (T-10-073), European patent application EP10013193.7, priority date 01.10.2010. Not active.
- Successful commercialization of developed nanoplasmonic sensors through *Inplorion AB* (organization number 556798-8760). Product names "wells" and "caves", including application note #22.

## Selected Research Grants

*Hybrid electrochromic materials for energy saving displays.*

Main applicant. Total funding 30 739 424 SEK to 3 applicants.

**Swedish Foundation for Strategic Research 2018** application/contract EM16-0002.

*Single molecule analysis in nanoscale reaction chambers.*

Single applicant. Total funding 3 000 000 SEK.

**Erling Persson Family Foundation 2017** (Swedish ERC Starting Grant replacement).

*Polymer brushes and molecular transport in nanofluidic channels.*

Single applicant. Total funding 3 400 000 SEK.

**Swedish Research Council 2016** application/contract 2016-03319.

*Macromolecular gates in nanofluidic channels.*

Single applicant. Total funding 7 500 000 SEK as "academy fellow".

**Wallenberg Foundation 2015** application/contract 2015.0161.

*Responsive polymers in active nanopores.*

Single applicant. Total funding 2 800 000 SEK, young researcher grant.

**Swedish Research Council 2012** application/contract 2012-4542.

*Active nanopores.*

Single applicant. Total funding 100 000 EUR as career integration grant.

**EU FP7 People Marie Curie 2012** application/contract 321821.

*Plasmonic antennas shine light on the nanoworld.*

Coapplicant. Total funding 37 000 000 SEK to 8 applicants.

**Wallenberg Foundation 2012.**

*Electrochemical gates in nanofluidic channels.*

Single applicant. Total funding 2 950 000 SEK for starting independent research activities in Sweden.

**Swedish Foundation for Strategic Research 2011** application/contract ICA10-0031.

*Sensing membrane transport using electrochemistry in nanowells.*

Coapplicant. Total funding 183 948 CHF for a PhD student project.

**Swiss National Science Foundation 2010.**

*Combined electrochemical and plasmonic analysis of biomolecular reactions in nanopores.*

Single applicant. Total funding 1 198 400 SEK for 2 years of postdoctoral work in Switzerland and 858 000 SEK for 1 year in Sweden.

**Swedish Research Council 2009** application/contract 2009-706.

## Publications: Research Papers

*Gating protein transport in solid state nanopores by single molecule recognition.*

G. Emilsson, Y. Sakiyama, B. Malekian, K. Xiong, Z. Adali-Kaya, R.Y.H. Lim, [A.B. Dahlin](#).\*

**ACS Central Science** (accepted).

*Nanoplasmonic sensing architectures for decoding membrane curvature-dependent biomacromolecular interactions.*

A.R. Ferhan, J. Jackman, B. Malekian, K. Xiong, G. Emilsson, S. Park, [A.B. Dahlin](#), N.-J. Cho.\*

**Analytical Chemistry** (accepted).

*Polymer brushes inside solid state nanopores form an impenetrable entropic barrier for proteins.*

G. Emilsson, K. Xiong, Y. Sakiyama, B. Malekian, V. Ahlberg Gagner, R.L. Schoch, R.Y.H. Lim, [A.B. Dahlin](#).\*

**Nanoscale** **2018**, 10 (10), 4663-4669 (communication).

*Protein exclusion is preserved by temperature sensitive PEG brushes.*

R. Schoch,\* G. Emilsson, [A.B. Dahlin](#), R.Y.H. Lim.

**Polymer** **2017**, 132, 362-367 (article).

*Switchable metasurfaces with high chromaticity containing only abundant metals.*

K. Xiong, D. Tordera, G. Emilsson, O. Olsson, U. Linderhed, M.P. Jonsson, [A.B. Dahlin](#).\*

**Nano Letters** **2017**, 7 (11), 7033-7039 (letter).

*Fabrication and characterization of plasmonic nanopores with cavities in the solid support.*

B. Malekian & K. Xiong, G. Emilsson, J. Andersson, C. Fager, E.M. Larsson-Langhammer, [A.B. Dahlin](#).\*

**Sensors** **2017**, 7 (6), 1444 (article).

*Superior LSPR substrates based on electromagnetic decoupling for on-a-chip high-throughput label-free biosensing.*

S.S. Aćimović, H. Šípová, G. Emilsson, [A.B. Dahlin](#), T. Antosiewicz, M. Käll.\*

**Light: Science & Applications** **2017**, 6, e17042 (article).

*Surface plasmon resonance methodology for monitoring polymerization kinetics and morphology changes of brushes - evaluated with poly(N-isopropylacrylamide).*

G. Emilsson, R.L. Schoch, P. Oertle, K. Xiong, R.Y.H. Lim, [A.B. Dahlin](#).\*

**Applied Surface Science** **2017**, 396, 384-392 (full length article).

*Plasmonic metasurfaces with conjugated polymers for flexible electronic paper in color.*

K. Xiong, G. Emilsson, A. Maziz, X. Yang, L. Shao, E.W.H. Jager, [A.B. Dahlin](#).\*

**Advanced Materials** **2016**, 28 (45), 9956-9960 (communication).

*Dual-wavelength surface plasmon resonance for determining the size and concentration of sub-populations of extracellular vesicles.*

D.L.M. Rupert, G.V. Shelke, G. Emilsson, V. Claudio, S. Block, C. Lässer, [A.B. Dahlin](#), J.O. Lötvall, M. Bally, V.P. Zhdanov, F. Höök.\*

**Analytical Chemistry** **2016**, 88 (20), 9980-9988 (article).

*Biosensing using plasmonic nanohole arrays with small, homogenous and tunable aperture diameters.*

K. Xiong, G. Emilsson, [A.B. Dahlin](#).\*

**Analyst** **2016**, 141 (12), 3803-3810 (article, Emerging Investigator issue).

*Location-specific nanoplasmonic sensing of biomolecular binding to lipid membranes with negative curvature.*

J. Junesch, G. Emilsson, K. Xiong, S. Kumar, T. Sannomiya, H. Pace, J. Vörös, S.-H. Oh, M. Bally, [A.B. Dahlin](#).\*

**Nanoscale** **2015**, 7 (37), 15080-15085 (communication).



*Plasmon enhanced internal photoemission in antenna-spacer-mirror based Au/TiO<sub>2</sub> nanostructures.*

Y. Fang, Y. Jiao, K. Xiong, R. Ogier, Z.-J. Yang, S. Gao, [A.B. Dahlin](#), M. Käll.\*  
**Nano Letters** **2015**, 15 (6), 4059–4065 (letter).

*Strongly stretched protein resistant poly(ethylene glycol) brushes prepared by grafting-to.*

G. Emilsson, R.L. Schoch, L. Feuz, F. Höök, R.Y.H. Lim, [A.B. Dahlin](#).\*  
**ACS Applied Materials & Interfaces** **2015**, 7 (14), 7505–7515 (article).

*Influence of the evanescent field decay length on the sensitivity of plasmonic nanodisks and nanoholes.*

F. Mazzotta, T. Johnson, [A.B. Dahlin](#), J. Shaver, S.-H. Oh,\* F. Höök.\*  
**ACS Photonics** **2015**, 2 (2), 256–262 (article).

*A thermal plasmonic sensor platform: Resistive heating of nanohole arrays.*

M. Virk & K. Xiong, M. Svedendahl, M. Käll, [A.B. Dahlin](#).\*  
**Nano Letters** **2014**, 14 (6), 3544–3549 (letter).

*Plasmonic nanopores in metal-insulator-metal films.*

[A.B. Dahlin](#),\* M. Mapar, K. Xiong, F. Mazzotta, F. Höök, T. Sannomiya.  
**Advanced Optical Materials** **2014**, 2 (6), 556–564 (full paper, with frontispiece).

*Single-particle plasmon sensing of discrete molecular events: Binding position versus signal variations for different sensor geometries.*

V. Claudio, [A.B. Dahlin](#), T. Antosiewicz.\*  
**Journal of Physical Chemistry C** **2014**, 118 (13), 6980–6988 (article).

*Embedded plasmonic nanomenhirs as location-specific biosensors.*

K. Kumar, [A.B. Dahlin](#), T. Sannomiya, S. Kaufmann, L. Isa, E. Reimhult.\*  
**Nano Letters** **2013**, 13 (12), 6122–6129 (letter).

*Optical resonances in short-range ordered nanoholes in ultrathin aluminum / aluminum nitride multilayers.*

Y. Ikenoya, M. Susa, J. Shi, Y. Nakamura, [A.B. Dahlin](#), T. Sannomiya.\*  
**Journal of Physical Chemistry C** **2013**, 117 (12), 6373–6382 (article).

*Simultaneous electrical and plasmonic monitoring of potential induced ion adsorption on metal nanowire arrays.*

R. MacKenzie, C. Frascina, B. Dielacher, T. Sannomiya, [A.B. Dahlin](#), J. Vörös.\*  
**Nanoscale** **2013**, 5 (11), 4966–4975 (full paper).

*Optical properties of nanohole arrays in metal-dielectric double films prepared by mask-on-metal colloidal lithography.*

J. Junesch, T. Sannomiya, [A.B. Dahlin](#).\*  
**ACS Nano** **2012**, 6 (11), 10405–10415 (article).

*Nanoplasmonic sensing of metal-halide complex formation and the electric double layer capacitor.*

[A.B. Dahlin](#),\* R. Zahn, J. Vörös.  
**Nanoscale** **2012**, 4 (7), 2339–2351 (full paper).

*Investigation of plasmon resonances in metal films with nanohole arrays for biosensing applications.*

T. Sannomiya,\* O. Scholder, K. Jefimovs, C. Hafner, [A.B. Dahlin](#).\*  
**Small** **2011**, 7 (12), 1653–1663 (full paper, cover page).

*Electrochemical crystallization of plasmonic nanostructures.*

[A.B. Dahlin](#),\* T. Sannomiya, R. Zahn, G.A. Sotiriou, J. Vörös.

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**Nano Letters** **2011**, 11 (3), 1337-1343 (letter).

*Electrochemistry on a localized surface plasmon resonance sensor.*

T. Sannomiya, H. Dermutz, C. Hafner, J. Vörös, A.B. Dahlin.\*

**Langmuir** **2010**, 26 (10), 7619-7626 (article).

*Locally functionalized short-range ordered nanoplasmonic pores for bioanalytical sensing.*

M.P. Jonsson,\* A.B. Dahlin, L. Feuz, S. Petronis, F. Höök.\*

**Analytical Chemistry** **2010**, 82 (5), 2087-2094 (article).

*QCM-D studies of human norovirus VLPs binding to glycosphingolipids in supported lipid bilayers reveal strain-specific characteristics.*

G.E. Rydell, A.B. Dahlin, F. Höök, G. Larson.\*

**Glycobiology** **2009**, 19 (11), 1176-1184 (article).

*High-resolution microspectroscopy of plasmonic nanostructures for miniaturized biosensing.*

A.B. Dahlin,\* S. Chen, M.P. Jonsson, L. Gunnarsson, M. Käll, F. Höök.\*

**Analytical Chemistry** **2009**, 81 (16), 6572-6580 (article, accelerated publication).

*Synchronized quartz crystal microbalance and nanoplasmonic sensing of biomolecular recognition reactions.*

A.B. Dahlin, P. Jönsson, M.P. Jonsson, E. Schmid, Y. Zhou, F. Höök.\*

**ACS Nano** **2008**, 2 (10), 2174-2182 (article).

*Label-free plasmonic detection of biomolecular binding by a single gold nanorod.*

G.J. Nusz, S.M. Marinakos, A.C. Curry, A. Dahlin, F. Höök, A. Wax, A. Chilkoti.\*

**Analytical Chemistry** **2008**, 80 (4), 984-989 (article).

*Specific self-assembly of single lipid vesicles in nanoplasmonic apertures in gold.*

A.B. Dahlin, M.P. Jonsson, F. Höök.\*

**Advanced Materials** **2008**, 20 (8), 1436-1442 (communication).

*Supported lipid bilayer formation and lipid-membrane-mediated biorecognition reactions studied with a new nanoplasmonic sensor template.*

M.P. Jonsson, P. Jönsson, A.B. Dahlin, F. Höök.\*

**Nano Letters** **2007**, 7 (11), 3462-3468 (letter).

*Generic surface modification strategy for sensing applications based on Au/SiO<sub>2</sub> nanostructures.*

R. Marie, A.B. Dahlin, J.O. Tegenfeldt, F. Höök.\*

**Biointerphases** **2007**, 2 (1), 49-54 (article).

*Quantitative interpretation of gold nanoparticle-based bioassays designed for detection of immunocomplex formation.*

Y. Zhou, H. Xu, A.B. Dahlin, J. Vallkil, C.A.K. Borrebäck, C. Wingren, B. Liedberg, F. Höök.\*

**Biointerphases** **2007**, 2 (1), 6-14 (article).

*Improving the instrumental resolution of sensors based on localized surface plasmon resonance.*

A.B. Dahlin, J.O. Tegenfeldt, F. Höök.\*

**Analytical Chemistry** **2006**, 78 (13), 4416-4423 (article).

*Plasmonic sensing characteristics of single nanometric holes.*

T. Rindzevicius, Y. Alaverdyan, A. Dahlin, F. Höök, D.S. Sutherland, M. Käll.\*

**Nano Letters** **2005**, 5 (11), 2335-2339 (letter).

*Phospholipid vesicle adsorption measured in situ with resonating cantilevers in a liquid cell.*

S. Ghatnekar-Nilsson,\* J. Lindahl, A. Dahlin, T. Stjernholm, S. Jeppesen, F. Höök, L. Montelius.

**Nanotechnology** **2005**, 16 (9), 1512-1516 (article).

*Localized surface plasmon resonance sensing of lipid-membrane-mediated biorecognition*

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events.

A.B. Dahlin, M. Zäch, T. Rindzevicius, D.S. Sutherland, M. Käll, F. Höök.\*  
**Journal of the American Chemical Society** **2005**, 127 (14), 5043-5048 (article).

## **Publications: Review Articles**

*Sensing applications based on plasmonic nanopores: The hole story.*

A.B. Dahlin.\*  
**Analyst** **2015**, 140 (14), 4748-4759 (critical review).

*Promises and challenges of nanoplasmonic devices for refractometric biosensing.*

A.B. Dahlin & N. Wittenberg, F. Höök, S.-H. Oh.\*  
**Nanophotonics** **2013**, 2 (2), 83-101 (review).

*Size matters: Problems and advantages associated with highly miniaturized sensors.*

A.B. Dahlin.\*  
**Sensors** **2012**, 12 (3), 3018-3036 (review).

*Electrochemical plasmonic sensors.*

A.B. Dahlin\*, B. Dielacher, P. Rajendran, K. Sugihara, T. Sannomiya, M. Zenobi-Wong, J. Vörös.  
**Analytical and Bioanalytical Chemistry** **2012**, 402 (5), 1773-1784 (review).

*Nanoplasmonic biosensing with focus on short-range ordered nanoholes in thin metal films (review).*

M.P. Jonsson,\* A.B. Dahlin, P. Jönsson, F. Höök.\*  
**Biointerphases** **2008**, 3 (3), FD30-FD40 (in focus review).

*Supported lipid bilayers, tethered lipid vesicles, and vesicle fusion investigated using gravimetric, plasmonic, and microscopy techniques.*

F. Höök,\* G. Stengel, A.B. Dahlin, A. Gunnarsson, M.P. Jonsson, P. Jönsson, E. Reimhult, L. Simonsson, S. Svedhem.  
**Biointerphases** **2008**, 3 (2), FA108-FA116 (in focus review, cover page featured).

## **Publications: Book Contributions**

*Nanopore membranes for separation and sensing - a "prosperous" future.*

G. Emilsson,\* A.B. Dahlin.  
**Springer** **2018**, Integrated Analytical Systems, Miniature Fluidic Devices for Rapid Biological Detection, edited by S.H. Oh & C. Escobedo & A.G. Brolo, 1-23 (book chapter).

*Nanoantennas for refractive index sensing.*

T. Shegai,\* M. Svedendahl, S. Chen, A.B. Dahlin, M. Käll.  
**Cambridge University Press** **2013**, Optical Nanoantennas, edited by M. Agio, 361-377 (book chapter).

*Performance of nanoplasmonic biosensors.*

A.B. Dahlin\*, M.P. Jonsson.  
**Springer** **2012**, Integrated Analytical Systems, Nanoplasmonic Sensors, edited by A. Dmitriev, 231-265 (book chapter).

*Nanoplasmonic sensing combined with artificial cell membranes.*

M.P. Jonsson,\* A.B. Dahlin, F. Höök.  
**Springer** **2012**, Integrated Analytical Systems, Nanoplasmonic Sensors, edited by A. Dmitriev, 59-82 (book chapter).

*Plasmonic biosensors: An integrated view of refractometric detection.*

A.B. Dahlin.\*  
**IOS Press** **2012**, Advances in Biomedical Spectroscopy 4 (sole author book).



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## **Selected Conference Contributions**

*Gordon Research Conference – Biointerface Science*

Trapping proteins in nanoscale chambers with macromolecular gates (poster presentation).

**Il Ciocco, Italy, 2018.**

*SelectBIO - Biodetection and Biosensors*

Plasmonic nanopores: Towards combined filtration and sensing (invited speaker).

**Cambridge, UK, 2017.**

*European Material Research Society – Autumn Meeting*

Plasmonic electronic paper (oral presentation).

**Warsaw, Poland, 2017.**

*Gordon Research Conference – Biointerface Science*

Capturing proteins by facilitated diffusion through macromolecular gates on plasmonic nanopores (poster presentation).

**Les Diablerets, Switzerland, 2016.**

*Elsevier – Biosensors 2016*

Location-specific nanoplasmonic detection of biomolecular interactions on lipid membranes with negative curvature (oral presentation).

**Gothenburg, Sweden, 2016.**

*15<sup>th</sup> Dresden Polymer Discussions*

Macromolecular gates: Polymer brushes on nanopores (invited speaker).

**Meissen, Germany, 2016.**

*Europt(r)ode 2016*

Nanoplasmonic sensors: Utilizing nanoscale geometry (invited speaker).

**Graz, Austria, 2016.**

*Nanobiotech Montreux*

Polymer-functionalized plasmonic nanopores (poster presentation).

**Montreux, Switzerland, 2015.**

*SciX 2015*

Nanoplasmonic sensors: unique applications (invited speaker).

**Providence, USA, 2015.**

*10<sup>th</sup> European Biophysics Congress*

Nanosieves formed by poly(ethylene glycol) brushes on plasmonic nanopores (poster presentation).

**Dresden, Germany, 2015.**

*Micronano System Workshop*

Polymer gates in nanopores (poster presentation).

**Uppsala, Sweden, 2014.**

*European Science Foundation – Biological Surfaces and Interfaces*

Polymer brush morphology at nanopore openings (poster presentation).

**Sant Feliu de Guixols, Spain, 2013.**

*Gordon Research Conference/Seminar – Biointerface Science*

PEGs in pores – the struggle for freedom (poster/oral presentation).

**Les Diablerets, Switzerland, 2012.**

*European Material Research Society – Spring Meeting*

Biosensing with nanohole arrays – The (w)hole story (oral presentation).

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**Strasbourg, France, 2012.**

*Nanoplasmonic Sensing and Spectroscopy*

Plasmonic monitoring of electrochemical processes (poster/oral presentation).

**Göteborg, Sweden, 2011.**

*European Material Research Society – Spring Meeting*

Plasmonic monitoring of electrochemical processes (keynote presentation).

**Nice, France, 2011.**

*Third International NanoBio Conference*

Electrochemical processes in plasmonic nanostructures (poster presentation).

**Zürich, Switzerland, 2010.**

*Gordon Research Conference/Seminar – Plasmonics*

Electrochemical potential influence on nanoplasmonic resonances (poster/oral presentation).

**Waterville, USA, 2010.**

*Elsevier – Biosensors World Congress 2010*

Nanostructured surfaces for combined optical, mechanical and electrical sensing (poster presentation).

**Glasgow, Scotland, 2010.**

*ETH – Functionalized Plasmonic Nanostructures for Biosensing*

Combining nanoplasmonic sensors with electrochemistry (poster presentation).

**Ascona, Switzerland, 2010.**

*Gordon Research Conference – Biointerface Science*

Combining nanoplasmonics with lipid membranes (poster presentation).

**Aussois, France, 2008.**

*China-Sweden Workshop on Nanoscience and Technology*

Nanoplasmonic apertures for biosensing applications related to lipid membranes (invited speaker).

**Beijing, China, 2008.**

*European Science Foundation - Biological Surfaces and Interfaces*

Combining localized surface plasmon resonance with artificial lipid membranes (poster presentation).

**Sant Feliu de Guixols, Spain, 2007.**

*Second Nanowire Symposium – Life Science*

A nano-optical sensor for studies of lipid-membranes (oral presentation).

**Lund, Sweden, 2006.**

*Gordon Research Conference – Biointerface Science*

Localized surface plasmon resonance sensing of lipid membranes (poster presentation).

**Les Diablerets, Switzerland, 2006.**

*American Chemical Society - Spring Meeting*

Extinction spectroscopy for sensors based on localized surface plasmon resonance (oral presentation).

**Atlanta, USA, 2006.**

*Max Planck Institute for Physics - Functional Solid Supported Biomolecular Lipid Membranes*

Localized surface plasmon resonance sensing of reactions confined to lipid membranes (poster presentation).

**Ringberg, Germany, 2005.**

## Reviewing Assignments

- **Nature Communications**
- **Scientific Reports (NPG)**
- **Nano Letters (ACS)**
- **ACS Nano**
- **Journal of the American Chemical Society (ACS)**
- **Chemistry of Materials (ACS)**
- **Analytical Chemistry (ACS)**
- **Langmuir (ACS)**
- **Journal of Physical Chemistry Letters (ACS)**
- **Journal of Physical Chemistry C (ACS)**
- **Biomacromolecules (ACS)**
- **ACS Applied Materials and Interfaces**
- **ACS Photonics**
- **ACS Omega**
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- **Journal of Optics (IOP)**
- **Journal of Physics D: Applied Physics (IOP)**
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- **Journal of the Optical Society of America B**
- **Optics Express (OSA)**
- **Optical Materials Express (OSA)**
- **Biomedical Optics Express (OSA)**
- **Expert Review of Molecular Diagnostics (Informa Healthcare)**
- **Sensors (MDPI)**
- **Biosensors (MDPI)**
- **Current Nanoscience (Bentham)**
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- **Nanotechnology and Nanomaterials (InTech)**
- **Journal of Nanophotonics (SPIE)**
- **IEEE Photonics**

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