Jakub Dostalek - publication record

Book chapters

1. K. Toma, M. Toma, M. Bauch, S. Hageneder, J. Dostalek, "Fluorescence biosensors utilizing grating-assisted plasmonic amplification" in "Surface Plasmon Enhanced, Coupled and Controlled Fluorescence" edited by Chris Geddes, Wiley (2017) ISBN: 978-1-118-02793-6.
2. N. G. Quillis, N. Sharma, S. Fossati, W. Knoll, J. Dostalek, "Responsive polymer networks and brushes for active plasmonics" in Polymer and Biopolymer Brushes: Fundamentals and Applications in Materials Science and Biotechnology, edited by Omar Azzaroni and Igal Szleifer, John Wiley & Sons, Ltd. (2017), ISBN:1118928903.
3. A. T. Reiner, K. Toma, A. R. Brisson, D. Pils, W. Knoll and J. Dostalek, "Plasmonic Exosome Biosensors for Medical Diagnostics" in, Frontiers in Biophotonics for Translational Medicine, Progress in Optical Science and Photonics 3, edited by M. Olivo and U. S. Dinish, Springer Science+Business Media Singapore (2016) DOI 10.1007/978-981-287-627-0_8.
4. J. Dostalek, "Plasmonic Amplification for Fluorescence Bioassays Utilizing Propagating Surface Plasmons" in Encyclopedia of Nanotechnology, Springer Science+Business Media Dordrecht (2015), DOI 10.1007/978-94-007-6178-0_100986-1.
5. J. Dostalek, "Plasmonic Amplification for Fluorescence Bioassays Utilizing Propagating Surface Plasmons" in Encyclopedia of Nanotechnology, Springer Science+Business Media Dordrecht (2015), DOI 10.1007/978-94-007-6178-0_100986-1.
6. W. Knoll, A. Kasry, C. J. Huang, Y. Wang, J. Dostalek, "Surface-Wave Enhanced Biosensing" in "Introduction to Plasmonics" edited by Sabine Szunerits, Pan Stanford Publishing, Singapore, (2015), ISBN: 9789814613125.
7. W. Knoll, A. Kasry, J. Dostalek, Biofunctional Surfaces, In "The Nano-Micro Interface: Bridging the Micro and Nano Worlds, 2nd Edition" edited by M. Van de Voorde, M. Werner, H-J. Fecht, Wiley (2015) ISBN: 978-3-527-33633-3
8. Y. Wang, C. J. Huang, J. Dostalek, "Evanescence wave biosensors with hydrogel binding matrix" in "Handbook of Biofunctional Surfaces" edited by Wolfgang Knoll, Pan Stanford Publishing, Singapore (2012) ISBN: 9789814316637.
9. Dostálek J and Knoll W Plasmonics in „Polymer Science: A Comprehensive Reference", Vol 2, pp. 647–659. Edited by Matyjaszewski K and Möller M, Amsterdam: Elsevier BV. (2012) ISBN: 978-0-08-087862-1.
10. J. Dostalek, C. J. Huang, W. Knoll: Chapter 1.3: Surface plasmon resonance-based biosensors, in Advanced surface design for biomaterial and life science applications, edited by A.T.A. Jenkins, R. Foersch, H. Schoenherr, Wiley-VCH, Weinheim (2009), 29-49, ISBN: 978-3-527-40789-7.
11. A. Kasry, J. Dostalek, W. Knoll: Chapter 5.4: Long range surface plasmon-enhanced fluorescence spectroscopy as a platform for biosensors, in Advanced surface design for biomaterial and life science applications, edited by A.T.A. Jenkins, R. Foersch, H. Schoenherr, Wiley-VCH, Weinheim (2009), 447-460, ISBN: 978-3-527-40789-7.
12. J. Dostálek, J. Homola: SPR Biosensors for Environmental Monitoring, in Surface Plasmon Resonance Based Sensors, editor J. Homola, Springer (2006).
13. J. Dostálek, J. Ladd, S. Jiang, J. Homola: SPR Biosensors for Detection of Biological and Chemical Analytes, in Surface Plasmon Resonance Based Sensors, editor J. Homola, Springer (2006).

Peer reviewed journal papers (received > 2150 citations according to Web of Science in May 2018). Those where Jakub Dostalek is corresponding author are marked ✉.

1. Christian Stelling, Stefan Fossati, Jakub Dostalek, Markus Retsch, Surface Plasmon Modes of Nanomesh-on-Mirror Nanocavities prepared by Nanosphere Lithography, submitted.
2. Nestor G. Quilis, M. Lequeux, P. Venugopalan, I. Khan, S. Boujday, W. Knoll, M. Lamy de la Chapelle, J. Dostalek, Nanoscale, 2018, Tunable laser interference lithography preparation of plasmonic nanoparticle arrays tailored for SERS, in press. ✉
3. Esteban Piccinini, Sebastian Alberti, Gabriel S. Longo, Teresa Berninger, Jakub Dostalek, Fernando Battaglini, Omar Azzaroni, and Wolfgang Knoll, Pushing the boundaries of interfacial sensitivity in graphene FET sensors: Polyelectrolyte multilayer films strongly increase the Debye screening length, Journal of Physical Chemistry C, 2018, in press.
4. Jinling Zhang, Imran Khan, Zhang Qingwen, Xiaohu Liu, Jakub Dostalek, Bo Liedberg, Yi Wang, Lipopolysaccharides detection on a grating-coupled surface plasmon resonance smartphone biosensor, Biosensors and Bioelectronics, 2018 (99), 312-317.
5. Agnes T. Reiner; Stefan Fossati, Jakub Dostalek, Biosensor platform for parallel surface plasmon-enhanced epifluorescence and surface plasmon resonance detection, Sensors and Actuators B, 2018, 257, 594-601. ✉
6. Khulan Sergelen, Christian Petri, Ulrich Jonas, and Jakub Dostálek, Free-standing hydrogel-particle composite membrane with dynamically controlled permeability for lab-on-chip applications, Biointerphases, 2017, 12, 051002. ✉
7. Khulan Sergelen, Bo Liedberg, Wolfgang Knoll, and Jakub Dostálek, Surface plasmon field-enhanced fluorescence reversible split aptamer biosensor, Analyst, 2017 (142) 2995-3001. ✉
8. Khulan Sergelen, Stefan Fossati, Aysegül Turupcu, Chris Oostenbrink, Bo Liedberg, Wolfgang Knoll, Jakub Dostálek, Plasmon field-enhanced fluorescence energy transfer for loop aptamer assay readout, ACS Sensors, 2017, 2 (7), 916-923. ✉
9. Agnes T. Reiner; Nicolas G Sanchez; Priyamvada Venugopalan; Ruenn C. Lai; Sai K Lim; Jakub Dostalek, Magnetic nanoparticle-enhanced surface plasmon resonance biosensor for extracellular vesicle analysis, Analyst, 2017, 142, 3913-3921. ✉
10. Imran Khan, Martin Bauch, Theodoros Dimopoulos, and Jakub Dostalek, Nanostructured as-deposited indium tin oxide thin films for broadband antireflection and light trapping, Nanotechnology, 2017, 28(32), 325201. ✉
11. A. Vagias, K. Sergelen, K. Koynov, P. Košovan, J. Dostalek, U. Jonas, W. Knoll, G. Fytas, Diffusion and permeation of labeled IgG in grafted hydrogels, Macromolecules, 2017, 50 (12), 4770–4779.
12. T. Riedel, F. Surman, S. Hageneder, O. Pop-Goergovski, A. de los Santos Pereira, E. Brynda, C. Rodriguez-Emmenegger, J. Dostalek, Hepatitis B plasmonic biosensor for the analysis of clinical saliva samples, Analytical Chemistry, 2017, *89* (5), pp 2972–2977 ✉
13. F. Pirani, N. Sharma, A. M. Cencerrado. S. Fossati, C. Petri, U. Jonas, E. Descrovi, J. L. Toca-Herrera, J. Dostalek, Diffraction observation of responsive properties of hydrogel nanopillars, Macromolecular Chemistry and Physics, 2017, 218 (6), 1600400 ✉
14. A. Karczmarczyk, C. Reiner-Rozman, M. Dubiak-Szepietowska, J. Dostalek, K-H. Feller, Fast and sensitive detection of Ochratoxin A in red wine by nanoparticle enhanced SPR, Analytica Chimica Acta, 2016, 937, 143-150.

15. T. Riedel, F. Surman, S. Hageneder, O. Pop-Goergovski, A. de los Santos Pereira, E. Brynda, C. Rodriguez-Emmenegger, J. Dostalek, Hepatitis B plasmonic biosensor for the analysis of clinical serum samples, Biosensor and Bioelectronics, 2016, 81, 159-165.
16. S. Hageneder, M. Bauch, J. Dostalek, Plasmonically amplified fluorescence bioassay– total internal reflection vs. epifluorescence geometry, Talanta, 2016,156-157, 225-231.
17. Y. Wang, L. Wu, M. Bauch, Q. Zhang, J. Zhang, X. Liu, X. Zhou, P. Bai, J. Dostalek, B. Liedberg, Directional Fluorescence Emission Co-Enhanced by Localized and Propagating Surface Plasmons for Biosensing, Nanoscale, 2016, 2016, 8, 8008-8016.
18. A. Karczmarczyk. M. Dubiak-Szepietowska, M. Vorobii, C. Rodriguez-Emmenegger, J. Dostálek, K-H. Feller, Sensitive and rapid detection of aflatoxin M1 in milk utilizing enhanced SPR and p(HEMA) brushes, Biosensor and Bioelectronics, 2016, 81, 159-165.
19. F. Frascella, C. Petri, S. Ricciardi, L. Napione, P. Munzert, U. Jonas, J. Dostalek, F. Bussolino, F. Pirri, E. Descrovi, Hydrogel-terminated photonic crystal for label-free detection of Angiopoietin-1, Journal of Lightwave Technology, (2016), 34 (15), 3641-3645.
20. N. Sharma, C. Petri, U. Jonas, J. Dostalek, Reversibly tunable plasmonic bandgap by responsive hydrogel grating, Optics Express, 2016, 24 (3), 2457-2465.
21. I. Khan, H. Keshmiri, F. Kolb, T. Dimopoulos, E. J.W. List-Kratochvil, J. Dostalek, Multi-diffractive broadband plasmonic absorber, Advanced Optical Materials, (2016) 4(3), 435-443.
22. N. Sharma, H. Keshmiri, X. Zhou, T. Wong, C. Petri, U. Jonas, B. Liedberg, J. Dostalek, Plasmonic nanohole arrays actuated by responsive hydrogel cushion, Journal of Physical Chemistry C, (2016), 120, 561-568.
23. M. Bauch, S. Hageneder, J. Dostalek, Plasmonic amplification for fluorescence assays with epi-fluorescence readout, Optics Express (2014) 22(26), 32026-32038.
24. N. Sharma, C. Petri, U. Jonas, M. Bach, G. Tovar, K. Mrkvova, M. Vala, J. Homola, W. Knoll, J. Dostalek, Molecularly Imprinted Polymer Waveguides for Direct Optical Detection of Low Molecular Weight Analytes, Macromolecular Chemistry and Physics, (2014) 215(23), 2295-2304.
25. M. Bauch, K. Toma, M. Toma, Q. Zhang, J. Dostalek, Surface plasmon-enhanced fluorescence biosensors: a review, Plasmonics, (2014), 9 (4), 781-799.
26. C.J. Huang, W. Knoll, A. Sessitsch, J. Dostalek, SPR bacterial pathogen biosensor: the importance of fluidic conditions and probing depth, Talanta, (2014) 122, 166-171.
27. M. Bauch, J. Dostalek, Collective localized surface plasmons for high performance fluorescence biosensing, Optics Express, (2013), 21(17) pp 20470-20483.
28. R. Mejard, C.J. Huang, J. Dostalek, H. Griesser, B. Thierry, Tunable and robust long range surface plasmon resonance for biosensor applications, Optics Materials, (2013), 35(12) pp 2507-2513.
29. M. Toma, U. Jonas, A. Mateescu, W. Knoll, J. Dostalek, Active control of SPR by responsive hydrogels: towards active plasmonics for biosensor applications, Journal of Physical Chemistry C, (2013), 117(22), 11705.
30. M.M. Picher, S. Küpcü, C.-J. Huang, J. Dostalek, D. Pum, U. B. Sleytr, P. Ertl, Nanobiotechnology advanced antifouling surfaces for the continuous electrochemical monitoring of glucose in whole blood using a lab-on-a-chip, Lab Chip, (2013), 13, 1780.
31. K. Toma, P. Adam, M. Vala, J. Homola, W. Knoll, J. Dostalek, Compact Biochip for Surface Plasmon-Enhanced Fluorescence Assays, Optics Express, (2013) 21(8), 10121-10132.

32. K. Toma, E. Descrovi, M. Toma, M. Ballarini, P. Mandracci, F. Giorgis, A. Mateescu, U. Jonas, W. Knoll, J. Dostalek, Bloch surface wave-enhanced fluorescence biosensor, Biosensors and Bioelectronics, (2013) , 43, 108-114.
33. Q. Zhang, Y. Wang, A., Mateescu, U. Jonas, T. Wei, J. Dostalek, Biosensor Based on Hydrogel Optical Waveguide Spectroscopy for the Detection of 17β-Estradiol, Talanta, (2013), 104, 149-154.
34. M. Toma, K. Toma, P. Adam, J. Homola, W. Knoll, J. Dostalek, Surface plasmon-coupled emission on plasmonic Bragg gratings, Optics Express (2012), 20(13), 14042.
35. M. Toma, W. Knoll, J. Dostalek, Bragg-scattered surface plasmon microscopy, Plasmonics (2012) 7(2), 293-299.
36. Y. Wang, W. Knoll, J. Dostalek, Long Range Surface Plasmon Resonance Biosensor for Magnetic Nanoparticle-Enhanced Detection of Bacterial Pathogens, Analytical Chemistry, (2012), 84, 8345-8350.
37. A. Mateescu, Y. Wang, J. Dostalek, U. Jonas, Thin Hydrogel Films for Optical Biosensor Applications, Membranes (2012), *2*(1), 40-69.
38. Y. Wang, J. Dostalek, W. Knoll, Magnetic Nanoparticle-Enhanced Biosensor Based On Grating-Coupled Surface Plasmon Resonance, Analytical Chemistry (2011), 83, 6202–6207.
39. K. Toma, J. Dostalek, W. Knoll, Long range surface plasmon-coupled fluorescence emission for biosensor applications, Optics Express (2011), Vol. 19, Iss. 12, pp. 11084–11089.
40. C.J. Huang, J. Dostalek, A. Sessitsch, W. Knoll, Long range surface plasmon-enhanced fluorescence spectroscopy biosensor for ultrasensitive detection of *E. Coli* O157:H7, Analytical Chemistry (2011), 83 (3), pp 674–677.
41. C.J. Huang, J. Dostalek, W. Knoll, Long range surface plasmon and hydrogel waveguide field-enhanced fluorescence biosensor with 3D binding matrix: on the role of mass transport, Biosensors and Bioelectronics (2010), 26,4, 1425-1431.
42. E-K. Sinner, S. Ritz, Y. Wang, J. Dostalek, U. Jonas, W. Knoll, Molecularly Controlled Functional Architectures at Biointerfaces, Materials Today (2010), 23, 4, 47-55.
43. Y. Wang, C.J. Huang, U. Jonas, T. Wei, J. Dostalek, W. Knoll, Biosensor based on Hydrogel Optical Waveguide Spectroscopy, Biosensors and Bioelectronics (2010), 25, 1663-1668.
44. C.J. Huang, J. Dostalek, W. Knoll, Optimization of layer structure supporting long range surface plasmons for surface plasmon-enhanced fluorescence spectroscopy biosensors, Journal of Vacuum Society and Technology B (2010), 28, 1, 66-72.
45. Y. Wang, Annette Brunsen, U. Jonas, J. Dostalek, W. Knoll, Prostate Specific Antigen Biosensor Based on Long Range Surface Plasmon-Enhanced Fluorescence Spectroscopy and Dextran Hydrogel Binding Matrix, Analytical Chemistry (2009) 81, 23, 9625-9632.
46. A. Aulasevich, R.F. Roskamp, U. Jonas, B. Menges, J. Dostalek, W. Knoll, Optical waveguide spectroscopy for the investigation of protein-functionalized hydrogel films, Macromolecular Rapid Communications (2009), 30, 872-877.
47. Y. Wang, J. Dostalek, W. Knoll, Long range surface plasmon-enhanced fluorescence spectroscopy for the detection of aflatoxin M1 in milk, Biosensors and Bioelectronics (2009), 24, 2264-2267.
48. J. Dostalek, R. F. Roskamp, W. Knoll, Coupled long range surface plasmons for the investigation of thin films and interfaces, Sensors and Actuators B (2009), 139, 9-12.
49. J. Dostalek, W. Knoll, Biosensors based on surface plasmon-enhanced fluorescence spectroscopy, Biointerphases (2008), Vol. 3, No.3, 12-22.

50. W. Knoll, A. Kasry, F. Yu, Y. Wang, A. Brunsen, J. Dostalek, New concepts with surface plasmons and nano-biointerfaces, Journal of Nonlinear Optical Physics & Materials (2008), Vol. 17, No. 2, pp 121-129.
51. J. Dostalek, J. Homola, Surface plasmon resonance sensor based on an array of diffraction gratings for highly-parallelized observation of biomolecular interactions, Sensors and Actuators B (2008), 129/1, 303-310.
52. J. Dostalek, A. Kasry, W. Knoll, Long range surface plasmons for observation of biomolecular binding events at metallic surfaces, Plasmonics (2007) 2, 97-106.
53. J. Dostálek, P. Adam, P. Kvasnička, O. Telezhnikova, J. Homola, Spectroscopy of Bragg-scattered surface plasmons for characterization of thin biomolecular films, Optics Letters (2007), 32, 2903-2905.
54. J. Dostálek, J. Přibyl, P. Skládal, J. Homola, Multichannel SPR biosensor for detection of endocrine disrupting compounds, Analytical and Bionanalytical Chemistry (2007) 389:1841-1847.
55. P. Adam, J. Dostálek, J. Homola, Multiple surface plasmon spectroscopy for study of biomolecular systems, Sensors and Actuators B (2006), 113, 771-781.
56. J. Homola, H. Vaisocherová, J. Dostálek, M. Piliarik, Multianalyte surface plasmon resonance biosensing, Methods (2005), 37, 26-36.
57. J. Dostálek, H. Vaisocherová, J. Homola, Multichannel Surface Plasmon Resonance Biosensor with Wavelength Division Multiplexing, Sensors and Actuators B (2005), 108, 758-764.
58. J. Dostálek, J. Homola, M. Miler, Rich information format surface plasmon resonance biosensor based on an array of diffraction gratings, Sensors and actuators B (2005), 107, 154-161.
59. J. Ryšavá, J. E .Dyr, J. Homola, J. Dostálek, P. Křížová, L. Mášová, J. Suttnar, J. Briestenský, I. Santar, K. Myška, M.Pecka, Surface interactions of oxidized cellulose with fibrin(ogen) and blood platelets, Sensors and Actuators B (2003), 90. 243-249.
60. J. Homola, J. Dostálek, S. Chen, A. Rasooly, S. Jiang, S. S. Yee, Spectral Surface Plasmon Resonance Biosensor for Detection of Staphylococcal Enterotoxin B (SEB) in Milk , Journal of Microbiology (2002), 75, 61-69.
61. J. Homola, H. B. Lu, G. G. Nenninger, J. Dostálek, S. S. Yee, A novel multichannel surface plasmon resonance biosensor, Sensors and Actuators B (2001), 76, 403-410.
62. V. Koubová, E. Brynda, L. Karasová, J. Škvor J. Homola, J. Dostálek, P. Tobiška, J. Rošický, Detection of foodborne pathogens using surface plasmon resonance biosensors, Sensors and Actuators B (2001), 74, 100-105.
63. J. Dostálek, J. Čtyroký, J. Homola, E. Brynda, M. Skalský, P. Nekvindová, J. Špirková, J. Škvor, J. Schröfel, Surface plasmon resonance biosensors based on integrated optical waveguides, Sensors and Actuators B (2001), 76, 8-12.

Invited and keynote speaker at symposia

1. N. Quilis, D. Kotlarek, S. Hageneder, S. Fossati, C. Petri, U. Jonas, J. Dostalek, Plasmonic biosensors powered by hydrogel nanostructures, ICMAT 17, July 18-23rd 2017, Singapore. (invited talk)
2. J. Dostalek, Plasmonically amplified fluorescence for biomarker analysis, META 16, Malaga, July 24-28th 2016, Spain. (invited talk)

3. J. Dostalek, Hydrogel-based interfaces for plasmonic biosensor and actuating, BIOGEL symposium Active Hydrogels, Schloss Ringberg-Kreutz, May 15-18th, Germany. (invited talk)
4. J. Dostalek, Plasmonic biosensing advanced by nanostructured hydrogel biointerface, Egyptian Materials Research International Conference, Jan. 8th 2016. (invited talk)
5. M. Bauch, S. Hageneder, A. Reiner, K. Sergelen, C. Petri, U. Jonas, J. Dostalek, Plasmonic amplification of fluorescence for biosensing, Nano and Photonics, Mauterndorf, Austria, March 19th-21st 2015. (invited talk)
6. J. Dostalek, Plasmonic amplification for fluorescence assays, SPIE Optics + Optoelectronics, Prague, Czech Republic, 13 - 16 April 2015. (invited talk)
7. J. Dostalek, Plasmonically Amplified Fluorescence Biosensors, CeNano Symposium, Linköping, Sweden, November 27th 2014. (invited talk)
8. J. Dostalek, U. Jonas, C. Petri, N. Sharma, S. Hageneder, T. Riedel, Plasmonic Biosensors Advanced by Functional Hydrogels, NanoBioMed, Barcelona, November 18th - 21st 2014 (invited talk)
9. J. Dostalek, M. Bauch, S. Hagender, K. Sergelen, Fluorescence biosensors with plasmonically amplified signal, Annual Conference Brno 2014: Frontiers in Material and Life Sciences, 21 to 24 October 2014, (invited talk)
10. J. Dostalek, Plasmon-Enhanced Fluorescence: Amplification Strategy in Fluorescence Biosensors, 30 years in SPR biosensors, Singapore, November 5th-7th 2013. (invited)
11. J. Dostalek, Plasmonic Biosensors Advanced by (Responsive) Functionalized Hydrogels, SoftControl, Darmstadt, September 22-24th 2013. (invited talk)
12. J. Dostalek, Y. Wang, C.J. Huang, H. Bao, Surface plasmon resonance biosensor for detection of bacterial pathogens: strategies for enhanced sensitivity, Nanoelectronic Devices for Defense & Security, New York, USA, August 29th - September 1st 2011. (invited talk)
13. M. Toma, K. Toma, U. Jonas, A, Mateescu, J. Dostalek, Plasmonic biosensors advanced by rapidly responsive hydrogels, 6th International Symposium on Surface Sciences, Tokyo, December 11-15, 2011. Book of abstracts pp. 99. (invited talk)
14. J. Dostalek, Y. Wang, C.J. Huang, A. Aulasevich, R. Roskamp, A. Brunsen, W. Knoll, Surface plasmon mediated fluorescence for biosensing, 4th International Symposium on Medical, Bio- and Nano-Electronics, Sendai, March 5-6, 2009, Book of abstracts pp. 21. (invited talk)

Patents

1. H. Xie, J. Han, A. Kibrom, W. Knoll, J. Dostalek, A hydrogel, for use in a biosensor with optics based detection of analytes, patent application, WO 2014116179, EP13872642
2. K. Toma, J. Dostalek, W. Knoll, J. Homola, M. Vala, P. Adam, Compact Biochip for Plasmon-Enhanced Fluorescence Biosensor, European Patent Office, EP12168046.
3. J. Čtyroký, J. Dostálek, J. Homola: Means for Multichannel Detection in Optical Sensors with Surface Plasmons, registered at Czech Patent and Trademark Office, CZ291728.
4. O. Telezhnikova, J. Dostálek, J. Homola: Method For Spectroscopy Of Surface Plasmons In Surface Plasmon Resonance Sensors And An Element For The Use Of Thereof, CZ299489, US20080144027, CA2598118, CN101175989.

Conference papers

1. Nestor Gisbert Quilis, Marcel van Dongen, Christian Petri, Ulrich Jonas, Wolfgang Knoll, Martin Möller, Ahmed Mourran, Jakub Dostalek, Active Hybrid Hydrogel-Metallic Nanostructures for Plasmonic Biosensor Applications, Nanophotonics and Micro/Nano Optics International Conference 2017, Barcelona, Sept 13–15, 2017 (poster).
2. Hageneder S, Fossati S, Petri C, Jonas U, Knoll W, Dostalek J, Plasmon-enhanced fluorescence biosensor utilizing metallic nanostructures and responsive hydrogel binding matrix, Nanophotonics and Micro/Nano Optics International Conference 2017, Barcelona, Sept 13–15, 2017 (poster).
3. Daria Kotlarek, Jakub Dostalek, Metallic nanohole arrays combined with thermo-responsive hydrogel for operation in a flow-through assay format, Nanophotonics and Micro/Nano Optics International Conference 2017, Barcelona, Sept 13–15, 2017 (poster).
4. Andreas Geiss, Stefan Fossati, Imran Khan, Nestor Quilis, Wolfgang Knoll and Jakub Dostalek, UV-SPR biosensor for biomolecular interaction studies, Nano and Photonics, Mauterndorf 20-27th March 2017 (poster)
5. Priyamvada Venugopalan, Nestor Gisbert Quilis , Médéric Lequeux, Marc Lamy De La Chapelle, Souhir Boujday, Jakub Dostalek, Wolfgang Knoll, Plasmonic nanostructures for combined SERS - QCM biosensing of low molecular weight analytes, Nano and Photonics, Mauterndorf 20-27th March 2017 (poster)
6. Priyamvada Venugopalan, Nestor Gisbert Quilis, Médéric Lequeux, Jakub Dostalek, Wolfgang Knoll, SERS substrates for in-situ biosensing, SPIE Optics + Optoelectronics, Prague, 24 - 27 April 2017 (talk by PV).
7. S. Fossati, S. Hageneder, N. Gisbert Quilis, C. Petri, U. Jonas , J. Dostalek, Plasmnically enhanced fluorescence for biosensor applications, SPIE Optics + Optoelectronics, Prague, 24 - 27 April 2017 (poster).
8. K. Sergelen, D. Kotlarek, J. Dostalek, J. Dostalek, Plasmonically mediated fluorescence biosensors with aptamer ligands, SPIE Optics + Optoelectronics, Prague, 24 - 27 April 2017 (talk).
9. Andreas Geiss, Stefan Fossati, Imran Khan, Nestor Quilis, Wolfgang Knoll and Jakub Dostalek, UV-SPR biosensor for biomolecular interaction studies, SPIE Proceedings 10231, Optical Sensors 2017, (2017) 1023107.
10. Agnes T. Reiner, Nicolas Guiler Ferrer Sanchez, Priyamvada Venugopalan, Ruenn Chai Lai, Sai-Kiang Lim, Jakub Dostalek, Magnetic nanoparticle-enhanced surface plasmon resonance biosensor for EV analysis, ISEV2017, 18th – 21st May 2017, Torono. (poster)
11. Florian Kolb, Birgit Six, Imran Khan, Gerhard Peharz, Jakub Dostalek, Franz-Peter Wenzl, Emil J. W. List-Kratochvil, Tuning Light Trapping in Organic Photovoltaics, Nano and Photonics, Mauterndorf, Austria, March 22th-24st 2017. (poster)
12. J. Dostalek, Plasmonically enhanced fluorescence biosensors, NILIndustrialday, Vienna, March 10-12th 2016 (talk)
13. J. Dostalek, Plasmonically amplified fluorescence bioassays, Europtrode XIII, Graz, March 20th -23rd 2016 (talk).
14. S. Hageneder, C. Petri, U. Jonas, W. Knoll, Dostálek J., Responsive hydrogel binding matrix for optical biosensors with microarray format, Europtrode XIII, Graz, March 20th -23rd 2016 (poster).
15. S. Fossati, M. Bauch, W. Knoll, J. Dostalek, Plasmonically enhanced fluorescence for biosensor applications, Europtrode XIII, Graz, March 20th -23rd 2016 (poster).

16. K. Sergelen, C. Petri, U. Jonas, W. Knoll, J. Dostalek, Surface plasmon resonance aptasensor for continuous monitoring of small molecules, Europtrode XIII, Graz, March 20th -23rd 2016 (poster).
17. G.N. Quilis, N. Sharma N, C. Petri, U. Jonas U, W. Knoll, J. Dostalek, Nanostructured-Thermoresponsive Hydrogels for Optical Biosensor Applications, Europtrode XIII, Graz, March 20th -23rd 2016 (poster).
18. D. Kotlarek, K. Sergelen, U. Jonas, Knoll W., Dostalek J., Reversible plasmonic biosensor supported by responsive hydrogel for continuous monitoring of thrombin, Europtrode XIII, Graz, March 20th -23rd 2016 (poster).
19. S Fossati, S. Hageneder, M Bauch, W. Knoll, J Dostalek, Plasmonically enhanced fluorescence for cancer diagnostics applications, Biosensors, Gothenburg, May 25-27 2016, (poster).
20. N. Quilis, N. Sharma, C. Petri, U. Jonas, W. Knoll, and J. Dostalek, Nanostructured responsive hydrogels for plasmonic biosensor applications, Active Hydrogels, Ringberg, May 15th-18th 2016 (poster)
21. D. Kotlarek, N. Quilis, S. Fossati, K. Sergelen, N. Sharma, C. Petri, U. Jonas, W. Knoll, J. Dostalek, Plasmonic aptasensor with a flow through architecture for a label-free detection of thrombin, Active Hydrogels, Ringberg, May 15th-18th 2016 (poster)
22. S. Fossati, S. Hageneder M. Bauch, W. Knoll and J. Dostalek, Lattice localized plasmons for fluorescence biosensing, META16, Malaga, July 25th -28th 2016 (poster)
23. N. Quilis, P. Kögler, C. Petri, U. Jonas, W. Knoll, and J. Dostalek, Responsive hydrogel-metallic nanostructures for plasmonic biosensing, META16, Malaga, July 25th - 28th 2016 (poster)
24. A. M. L. Sousa, J. Dostalek, K. H. A. Lau, Characterising molecular diffusion through nanopores using nanoporous anodic alumina waveguides, EMRS 2016, Warsaw, 19th - 22nd September (poster)
25. Khan H. Keshmiri, T. Dimopoulos, F. Kolb, J. Dostalek, Plasmonic light trapping in thin film solar cells, International Conference on Hybrid and Organic Photovoltaics 2016 (HOPV16), Swansee 2016, June 28th – July 1st (poster).
26. A. Reiner, K. Auer, D. Pils, A. Brisson, S/K. Lim, W. Knoll, J. Dostalek, Surface plasmon-enhanced fluorescence spectroscopy for EV analysis, TethMem, Singapore, Nov 8-10th 2015 (poster)
27. A. Karczmarczyk, J. Dostalek, K.-H. Feller, Ultrasensitive biosensors based on enhanced SPR and nano-ELISA for toxins detection, 11th International Biosensor Conference, Regensburg, Germany, Sept 26-30th, 2015 (poster)
28. C. Petri, U. Jonas, J. Dostalek, Photocrosslinkable Poly(2-alkyl-2-oxazoline)-Based Hydrogel Systems, Soft Matter Days, Nov 10-13th, Juelich, Germany, 2015 (poster)
29. H. Keshmiri and J. Dostalek, Multi-diffractive gratings for plasmonic light harvesting in thin photovoltaic solar cells: theoretical study, Optical Nanostructures and Advanced Materials for Photovoltaics 2015, Suzhou, China, Nov. 2-5th 2015 (poster)
30. S. Gogalic, S. Hageneder, C. Ctortecka, M. Bauch, I. Khan, C. Preininger, U. Sauer, J. Dostalek, Plasmonically amplified fluorescence bioassays with microarray format, Proc. of SPIE Optical Sensors 2015, Vol. 9506, 950605. (proceeding paper)
31. H. Keshmiri, J. Dostalek, Plasmonic organic thin-film solar cell: light trapping by using conformal vs non-conformal relief gratings, Proc. of SPIE Metamaterials X 2015, Vol. 9502, 950210. (proceeding paper)

32. Khan, H. Keshmiri, T. Dimopoulos, F. Kolb, E. J. W. List-Kratochvil, J. Dostalek, Multi-diffractive plasmonic absorber for thin film solar cells, Nano and Photonics, Mauterndorf, Austria, March 19th-21st 2015. (poster)
33. H. Keshmiri, J. Dostalek, Surface plasmon-enhanced light harvesting in bulk-heterojunction organic solar cells, SPIE Optics + Optoelectronics, Prague, Czech Republic, 13 - 16 April 2015. (poster)
34. F. Frascella, C. Petri, S. Ricciardi, L. Napione, F. Bussolino, J. Dostalek, U. Jonas, F. Pirri, E. Descrovi, Angiopoietin-1 detection in Hydrogel binding matrix on a One-Dimensional Photonic Crystal, Fotonica 2015, March 6-th 2015, Torino, Italy (talk)
35. K. Sergelen, J. Dostalek, W. Knoll, Split aptamer sandwich assay for fluorescence detection of 17β-estradiol, BioNanoMed, Graz, April 8-10th, 2015 (poster)
36. A. Reiner, K. Auer, D. Pils, A. Brisson, S/K. Lim, W. Knoll, J. Dostalek, Surface plasmon-enhanced fluorescence spectroscopy for EV analysis, BioNanoMed, Graz, April 8-10th, 2015 (poster)
37. J. Dostalek, Plasmon-enhanced fluorescence biosensors: amplification strategy in fluorescence assays, TOBB Üniversitesi, Ankara, Turkey. 24th January, 2015 (invited seminar)
38. J. Dostalek, M. Bauch, S. Hageneder, A. Reiner, K. Sergelen, Fluorescence bioassays with plasmonic amplification for biomarker analysis, SPP7, Jerusalem, Israel, May 31 - June 5, 2015. (talk)
39. H. Keshmiri, E. Descrovi, C. Petri, U. Jonas, J. Dostalek, Steering of surface electromagnetic waves with responsive hydrogels, Micro and Nano Engineering, Lausanne, Switzerland, Sept 22-26 2014. (poster)
40. J. Dostalek, M. Bauch, K. Sergelen, S. Hageneder, N. Sharma, C. Petri, U. Jonas, Plasmonically Amplified Fluorescence for Biosensing, Advanced Architectures in Photonics 2014, Prague, Czech Republic, September 21st-24th 2014. (talk)
41. K. Sergelen, C. Petri, U. Jonas, W. Knoll, S. Ohlson, B. Liedberg, J. Dostalek, Surface plasmon resonance biosensor for continuous monitoring of small molecules, Biosensors, May 27-30th 2014, Melbourne, Australia. (poster)
42. M. Bauch, U. Sauer, C. Preininger, F. Reil, M. Belegratis, J. Dostalek, Plasmonic double resonance structure for plasmon enhanced fluorescence biochips, Biosensors, May 27-30th 2014, Melbourne, Australia. (poster)
43. N. Sharma, C. Petri, U. Jonas, M. Bach, G. Tovar, K. Mrkvova, M. Vala, J. Homola, W. Knoll, J. Dostalek, Molecularly imprinted polymer optical waveguide for direct detection of small molecules, May 27-30th 2014, Melbourne, Australia. (poster)
44. J. Dostalek, Plasmon-enhanced fluorescence biosensors: The role of field confinement, Biosensors, May 27-30th 2014, Melbourne, Australia. (poster)
45. Simone Hageneder, Johannes Peham, Christa Noehammer, Manuela Hofner, Jakub Dostalek, Plasmon-enhanced fluorescence biosensor for saliva biomarkers, Biomarker Development, March 31st-April 1st, Vienna, Austria. (poster)
46. Dostalek, M. Bauch, U. Sauer, C. Preininger, S. Hageneder, Plasmonic Amplification for Fluorescence Biosensors, COST Thematic Workshop on "Integrated approaches for biomolecular detection: nanostructures, biosensors and lab-on-chip devices", April 28th – 30th 2014, Catania, Italy. (talk)
47. N. Sharma, C. Petri, U. Jonas, M. Bach, G. Tovar, K. Mrkvova, M. Vala, J. Homola, W. Knoll, J. Dostalek, Molecular Imprinted Polymer Optical Waveguides for Direct Detection of Small Molecules, 30 years in SPR biosensors, Singapore, November 5th-7th 2013. (poster)

48. K. Sergelen, C. Petri, U. Jonas, W. Knoll, S. Ohlson, B. Liedberg, J. Dostalek, SPR Biosensor for Continuous Monitoring of Small Molecules, 30 years in SPR biosensors, Singapore, November 5th-7th 2013. (poster)
49. U. Sauer, A. Solar, M. Bauch, J. Dostalek, C. Preininger, Fabrication of gold-nanostructures for biosensor surfaces via residue-free UV-NIL and subsequent lift-off, MNE2013, London 16th-19th September 2013. (poster)
50. M. Bauch, W. Knoll, and J. Dostalek, Plasmon-Enhanced Fluorescence Biosensor with Collective Localized Surface Plasmons, SPP6, Ottawa May 26th-May 31st 2013. (poster)
51. U. Jonas, V. Schwartz, A. Mateescu, J. Dostalek, Y. Wang, Q. Zhang, Complex Hydrogel Thin Films as Smart Matrix for Biosensor Applications, Frontiers in Polymer Science, Sitges 21st-23rd May 2013.
52. U. Jonas, V. Schwartz, A. Mateescu, J. Dostalek, Y. Wang, Q. Zhang, A. Brunsen, Complex Hydrogel Thin Films as Smart Matrix for Biosensor Applications, COMPLOIDS, May 14th – 18th, 2013 Ljubljana.
53. M. Bauch, K. Toma, J. Dostalek, Plasmon-enhanced fluorescence biosensors: amplification strategy in fluorescence assays, Nano and Photonics, Maunterndorf, 18th-22nd March 2013. (poster)
54. M. Bauch, W. Knoll, J. Dostalek, Lattice plasmon modes for plasmon-enhanced fluorescence, NFO12, San Sebastian, 3rd-7th September 2012, book of abstracts p. 63. (poster)
55. J. Dostalek, Y. Wang, C.J. Huang, K. Toma, M. Toma, W. Knoll, Plasmon-enhanced fluorescence for biosensor applications, NFO12, San Sebastian, 3rd-7th September 2012, book of abstracts p.154. (talk)
56. Y. Wang, C.J. Huang, A. Kibrom, A. Mateescu, U. Jonas, W. Knoll, J. Dostalek, Plasmon-Enhanced Fluorescence Biosensors with Hydrogel Binding Matrix, Gordon Research Conference, Les Diableretes, May 21st-25th May 2012. (poster)
57. M. Toma, Q. Zhang, U. Jonas, W. Knoll, J. Dostalek, Hydrogel Optical Waveguide Spectroscopy for Label-free Detection of Small Molecules, Gordon Research Conference, Les Diableretes, May 21st-25th May 2012. (poster)
58. K. Toma, M. Vala, P. Adam, J, Homola, W. Knoll, J. Dostalek, Compact Biochip of Plasmon-Enhanced Fluorescence Assays, Gordon Research Conference, Les Diableretes, May 21st-25th May 2012. (poster)
59. K. Toma, M. Vala, P. Adam, J. Homola, W. Knoll, J. Dostalek, Plasmon-enhanced fluorescence for portable biosensor devices, Europtrode, April 1st-4th 2012, Barcelona, book of abstracts p 82. (poster)
60. M. Toma, A. Mateescu, U. Jonas, W. Knoll, J. Dostalek, Plasmon-enhanced fluorescence biosensor with active responsive hydrogel binding matrix, Europtrode, April 1st-4th 2012, Barcelona, book of abstracts p 134. (poster)
61. J. Dostalek, Plasmon-enhanced fluorescence biosensors exploiting metallic nanostructures, BioNanoMed, Krems, 1st-2nd March 2012, book of abstracts. (talk)
62. J. Dostalek, Optical affinity biosensors utilizing surface plasmon-enhanced fluorescence spectroscopy, Exploratory Workshop: Emerging Analytical Tools to Quantify the Plant-Insect-Environment Interaction. New Science for the Next Generation Integrated Bio/Sensors and Probes, Bukuresti, November 16th-18th, book of abstracts 5-6. (talk)
63. Y. Wang, W. Knoll, J. Dostalek, Long range surface plasmon resonance bacterial pathogen biosensor with magnetic nanoparticle assay, Biophotonics 2011, 8-10 June 2011, Italy, page 1-3.

64. M. Toma, A. Mateescu, U. Jonas, J. Dostalek, W. Knoll, Plasmonic biosensor schemes with thermo-responsive hydrogel binding matrix, Biophotonics 2011, 8-10 June 2011, Italy, page.
65. K. Toma, Long range surface plasmon-coupled fluorescence emission for biosensor applications, Biophotonics 2011, 8-10 June 2011, Italy.
66. K. Toma, Long range surface plasmon-coupled fluorescence emission for biosensor applications, SPP5 2011, 15-20 May 2011, Korea
67. Y. Wang, J. Dostalek, W. Knoll, Grating-coupled SPR for magnetic nanoparticle immunoassay, ACS, August 22-26, 2010, Boston, USA.
68. J. Dostalek, Y. Wang, C.J. Huang, K. Toma, W. Knoll, Surface plasmon-enhanced fluorescence for ultra sensitive biosensors, Biosensors 2010, May 26-28, Glasgow, UK, Book of abstracts 11B.2.
69. K. Toma, J. Dostalek, W. Knoll, Surface plasmon-mediated fluorescence spectroscopy for ultra sensitive biosensors, Europtrode X, March 28-31, 2010, Prague, CZ, Book of abstracts P152.
70. C.J. Huang, U. Jonas, J. Dostalek, W. Knoll, Hydrogel binding matrix for surface plasmon- and optical waveguide-enhanced fluorescence spectroscopy biosensor, Europtrode X, 28-31 March 2010, Prague, CZ, Book of abstracts P158.
71. Y. Wang, J. Dostalek, W. Knoll, Magnetic nanoparticle-enhanced SPR biosensor, Proc. Eurosensors XXIV, September 5-8, 2010, Linz, Austria
72. M. Toma, J. Dostalek, W. Knoll, Bragg-scattered surface plasmons for high resolution SPR imaging, Europtrode X, 28-31 March 2010, Prague, CZ, Book of abstracts P88.
73. C.J. Huang, J. Dostalek, W. Knoll, Surface plasmon-enhanced fluorescence spectroscopy for detection of bacterial pathogens, First Bio-Sensing Technology Conference, 10-12 November 2009, Bristol, UK, Delegate manual P2.1.13.
74. J. Dostalek, W. Knoll, Surface plasmon Enhanced Fluorescence in Biosensing, 11th International Conference on Methods and Applications of Fluorescence: Spectroscopy, Imaging and Probes, Budapest, Hungary, September 2009.
75. J. Dostalek, Y. Wang, C.J. Huang, R. Chulia-Jordan, A. Aulasevich, R. Roskamp, A. Brunsen, W. Knoll, Advanced biosensing based on surface plasmon-enhanced fluorescence spectroscopy, Optics and Optoelectronics 2009, Prague, Czech Republic, April 20-23, 2009, Book of abstracts 7356.
76. C.J. Huang, U. Jonas, J. Dostalek, W. Knoll; "Biosensor platform based on surface plasmon-enhanced fluorescence spectroscopy and responsive hydrogel binding matrix", Proc. SPIE 2009, *Vol. 7356*, 735625, DOI: 10.1117/12.820988.
77. C.J. Huang, J. Dostalek, W. Knoll, Long range surface plasmons for fluorescence spectroscopy-based biosensing, Optics and Optoelectronics 2009, Prague, Czech Republic, April 20-23, 2009, Book of abstracts 7356-82.
78. J. Dostalek, Y. Wang, C.J. Huang, R. Chulia-Jordan, A. Aulasevich, R. Roskamp, A. Brunsen, W. Knoll, Advanced biosensing based on surface plasmon-enhanced fluorescence spectroscopy, Nanosens, Vienna, September 29-30th 2008, Book of abstracts.
79. J. Dostalek, Y. Wang, A. Brunsen, R. Roskamp, W. Knoll, Biosensor based on long range surface plasmon-enhanced fluorescence spectroscopy, Europtrode IX, Dublin, March 30th 2008, Book of abstracts pp. 66.
80. J. Homola, M. Vala, P. Adam, J. Dostalek, O. Telezhnikova, M. Piliarik, Advances in surface plasmon resonance (SPR) biosensing, The Tenth World Congress on Biosensors (Biosensors 2008), Shanghai, China, May 14-16, 2008, Delegate Manual P2.177.

81. Q.Li, J. Dostalek, J.J. Wang, S Ahl, U. Jonas, W. Knoll, Silica and gold composite inverse opal and its biosensing application, The Tenth World Congress on Biosensors (Biosensors 2008), Shanghai, China, May 14-16, 2008, Delegate Manual P2.60
82. P. Adam, J. Dostálek, O. Telezhnikova, J. Homola: SPR Sensor Based on a Bi-diffractive Grating, Optics and Optoelectronics 2007, Prague, Czech Republic, April 16-20, 2007, SPIE proceedings, Vol. 6585, U528-536.
83. M. Vala, J. Dostálek, J. Homola: Diffraction Grating-Coupled Surface Plasmon Resonance Sensor Based on Spectroscopy of Long-Range and Short-Range Surface Plasmons, Optics and Optoelectronics 2007, Prague, Czech Republic, April 16-20, 2007. SPIE proceedings, Vol. 6585, U547-555.
84. M. Vala, J. Dostálek, J. Homola, Long-range surface plasmon resonance biosensor based on diffraction gratings, Biosensors, Toronto, May 10-12, 2006.
85. J. Dostálek, M. Piliarik, I. Tichý, J. Habr, J. Homola, New portable multichannel SPR biosensor for environmental monitoring, Biosensors, Toronto, May 10-12, 2006
86. J. Dostálek, J. Přibyl, M. Piliarik, J. Habr, I. Tichý, P. Skládal, J. Homola: Multichannel SPR biosensor for detection of environmental contaminants, Europt(r)ode VIII, Tubingen, Germany, April 2 – 5, 2006, Book of Abstracts, pp. 110.
87. J. Dostálek, P.Adam, O. Teleznikova, J. Homola, An SPR biosensor based on Bragg scattered surface plasmons, Europt(r)ode VIII, Tubingen, Germany, April 2 – 5, 2006, Book of Abstracts, pp. 111.
88. J. Dostálek, J. Homola, M. Miler: Rich Information Format Surface Plasmon Resonance Biosensor Based On Array of Diffraction Gratings, Europt(r)ode VII, Madrid, Spain, April 4 – 7, 2004, Book of Abstracts.
89. J. Homola, J. Dostálek, M. Piliarik: Surface Plasmon Resonance Sensors for High-Throughput Screening Applications, Biosensors 2004 - The Eighth World Congress on Biosensors, Granada, Spain, May 24-26, 2004, Book of Abstracts.
90. J. Dostálek, J. Homola, M. Miler, Surface plasmon resonance on diffractive gratings for rich information format biosensors, Europt(r)ode VI Manchester, April 2002, Book of abstracts, pp. 265.
91. G.G. Nenninger, M. Piliarik, J. Dostálek, J. Homola, S. Yee, Data analysis for optical sensors based on spectroscopy of surface plasmons, information format biosensors, Europt(r)ode VI Manchester, April 2002, Book of abstracts, pp. 263.
92. G. G. Nenninger, J. Dostálek, J. Homola, S. S. Yee, Improved surface plasmon resonance biosensing using long-range surface plasma wave spectroscopy, 9th International Meeting on Chemical Sensors Boston, July 2002, Book of Abstracts.
93. J. Homola, J. Dostálek, Piliarik, S. S. Yee, Multichannel surface plasmon resonance sensors, Europt(r)ode VI Manchester, April 2002, Book of abstracts, pp. 71.
94. J. Ryšavá. E. Dyr, J. Homola, J. Dostálek, P. Křížová, L. Mášová, J. Suttnar, J. Briestenský, I. Santar, Surface interactions of oxidized cellulose with fibrin(ogen) and blood platelets, Europt(r)ode VI Manchester, April 2002, Book of abstracts, pp. 261.
95. J. Homola, J. Dostálek, S. Chen, A. Rasooly, Shaoyi Jiang, S. S. Yee, Reference-Compensated Surface Plasmon Resonance Biosensor for Detection of Foodborne Pathogens, International Conference on Optical Engineering for Sensing and Nanotechnology, Yokohama, Japan, June 2001, SPIE Proceedings, Vol. 4416, 280-283.
96. J. Ryšavá, J. Homola, J. E. Dyr, P. Tobiška, I. Tichý, J. Dostálek, P. Křížová, Fibrin clot formation observed by optical biosesnors, Optical Sensors 2001, Prague, Czech Republic, October1-3, 2001.

97. J. Ryšavá, J. Homola, E. Brynda, M. Houska, J. Suttnar, P. Tobiška, I. Tichý, J. Dostálek, J. E. Dyr, P. Křížová, Real time observation of fibrinogen adhesion using surface plasmon resonance and grating coupler, Optical Sensors 2001, Prague, Czech Republic, October1-3, 2001.
98. J. Homola, J. Dostálek, J. Čtyroký, A novel approach to surface plasmon resonance multichannel sensing, International Conference on Optical Engineering for Sensing and Nanotechnology, Yokohama, Japan, June 2001, SPIE Proceedings, Vol. 4416, 86-89.
99. E. Brynda, J. Homola, V. Koubová, J. Dostálek, J. Rošický, J. Škvor, P. Rauch: Detection of foodborne pathogens using surface plasmon resonance biosensors, Europt(r)ode V, Lyon, France, April 2000, Book of Abstratcs P22, pp. 163-164.
100. M. Piliarik, J. Homola, J. Dostálek, P. Tobiška, J. Rošický: Nonlinear regression data analysis method for high resolution surface plasmon resonance sensors, Europt(r)ode V, Lyon, France, April 2000, Book of Abstacts P24, pp. 167-168.
101. J. E. Dyr, J. Ryšavá, J. Suttnar, J. Homola, P. Tobiška, I. Tichý, J. Dostálek, E. Brynda, M. Houska: Optical sensor-based observation of initial stages in the growth and development of fibrin clot, Europt(r)ode V, Lyon, France, April 2000, Book of Abstracts P14, pp. 147-148.
102. J. Čtyroký, J. Homola, E. Brynda, M. Skalský, J. Dostálek, J. Schrofel: Surface plasmon resonance biosensors based on integrated optical waveguides, 8th International Meeting on Chemical Sensors, Basel, Switzerland, July 2000, Book of Abstracts, pp. 34.
103. J. Homola, H. B. Lu, J. Dostálek, S. S. Yee, C. T. Campbell, B. D. Ratner: A novel multichannel surface plasmon resonance biosensor, 8th International Meeting on Chemical Sensors, Basel, Switzerland, July 2000, Book of Abstracts, pp. 46.