SELECTED PUBLICATIONS:

Invited papers in refereed journals:

[JI8] Berini, P., Olivieri, A., Chen, C., "Thin Au surface plasmon waveguide Schottky detectors on p-Si," (IoP) Nanotechnology, *Special Issue: Plasmonics in optoelectronics*, Vol. 23, 444011, 2012

[JI7] Berini, P., "Surface plasmon photodetectors and their applications," (Wiley-VCH) Laser & Photonics Reviews, (review paper), DOI: 10.1002/lpor.201300019

[JI6] Olivieri, A., Akbari, A., Berini, P., "Surface plasmon waveguide Schottky detectors operating near breakdown," (Wiley-VCH) Physica Status Solidi - Rapid Research Letters, S*pecial Issue: Plasmonics and Nanophotonics*, Vol. 4, pp. 283-285, 2010

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[JI4] Berini, P., Buckley, R., "On the convergence and accuracy of numerical mode computations of surface plasmon waveguides," (ASP) Journal of Computational and Theoretical Nanoscience, *Special issue on Functional Nanophotonics and Nanoelectromagnetics*, Vol. 6, pp. 2040-2053, 2009

[JI3] Degiron, A., Berini, P., Smith, D. R. "Guiding Light with Long-Range Plasmons," (OSA) Optics and Photonics News, Vol. 19, pp. 28-34, 2008

[JI2] Berini, P., "Bulk and surface sensitivities of surface plasmon waveguides," (IoP) New Journal of Physics, *Focus Issue on Plasmonics*, Vol. 10, 105010, 2008

[JI1] Berini, P., Charbonneau, R., Lahoud, N., "Long-range surface plasmons along membrane-supported metal stripes," IEEE Journal of Selected Topics in Quantum Electronics, *Special Issue on Surface Plasmon Photonics and Plasmonics*, Vol. 14, pp. 1479-1495, 2008

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[J98] Alavirad, M., Roy, L., Berini, P., "Optimal Design of Plasmonic Nanodipole Antenna Array for Sensing Applications," submitted

[J97] Khan, A., Krupin, O., Lisicka-Skrzek, E., Berini, P., "Mach-Zehnder refractometric sensor using long-range surface plasmon waveguides," submitted

[J96] Krupin, O., Wang, C., Berini, P., "Selective capture of human red blood cells based on blood group using long-range surface plasmon waveguides," submitted

[J95] Niu, S., Berini, P., Wang, C., Zou, S., "Morphology and Expression Status Investigations of Specific Surface Markers on B-cell Chronic Lymphocytic Leukemia (B-CLL) Cells," (Wiley) Microscopy Research and Technique, in press

[J94] Yuan, J., Hajebifard, A., Berini, P., Zou, S., "Ordered Gold Nanoparticle Arrays on Glass and Their Characterization," (Elsevier) J. Coll. Int. Sci., in press

[J93] Cervantes Tellez, G. A., Hassan, S., Tait, R. N., Berini, P., Gordon, R., "Ultra-flat Symmetric Elliptical Nanohole Arrays in a Gold Film for Ultrasensitive Refractive Index Sensing," (RSC) Lab on a Chip, Vol. 13, pp. 2541-2546, 2013

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[J85] Karami Keshmarzi, E., Tait, R. N., Berini, P., "Long-Range Surface Plasmon Single-Mode Laser Concepts," (AIP) Journal of Applied Physics, Vol. 112, 063115, 2012

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[J83] Tencer, M., Krupin, O., Tezel, B., Berini, P., "Electrochemistry of Au-SAM-protein stacks," (ECS) Journal of the Electrochemical Society, Vol. 160, pp. H22-H27, 2013

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Invited papers in refereed conferences:

[CI40] Berini, P., "Long-range surface plasmons and their applications," 9th International Conference on Optics-photonics Design & Fabrication, Tokyo Japan, February 2014

[CI39] Berini, P., "Active surface plasmon photonics," WE-Heraeus-Seminar on Active Nanoplasmonics and Metamaterial Dynamics, Bonn Germany, January 2014

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[CI13] Berini, P., "Development of biosensors based on long-range surface plasmons," Canadian Chemistry Conference - Bioplasmonics Symposium, Toronto, May 2010

[CI12] Berini, P., "Integrated Optics Based on Long-Range Surface Plasmons: Review of Recent Progress," ISMOT - International Symposium on Microwaves and Optical Technology, New Delhi, India, December 2009

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[CI7] Berini, P., "Sensing using long-range surface plasmons in metal stripe waveguides," European Optical Society - Topical Meeting on Molecular Plasmonic Devices, Engelberg Switzerland, pp.36-37, April 2006

[CI6] Berini, P., "Integrated optics based on long-ranging surface plasmon-polaritons," MRS Materials Research Symposium GG: Plasmonics - Nanoscale Optics and Photonics Based on Metals, Fall Meeting, Boston USA, November 2005

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[C66] Alavirad, M., Siadat Mousavi, S., Roy, L., Berini, P., "Schottky-Contact Plasmonic Rectenna for Biosensing," Photonics North, Ottawa, Canada, June 2013

[C65] Krupin, O., Wang, C., Berini, P., "Selective biosensing using straight long-range surface plasmon waveguides," Photonics North, Ottawa, Canada, June 2013

[C64] Hajebifard, A., Yuan, J., Zou, S., Berini, P., "Analysis of Localized Surface Plasmon Resonance in Glass-supported AuNPs with a Hexagonal Pattern," Photonics North, Ottawa, Canada, June 2013

[C63] Fong, N., Berini, P., Tait, R. N., "Long Range Surface Plasmon Polariton Waveguides For Hydrogen Sensing," Photonics North, Ottawa, Canada, June 2013

[C62] Yuan, J., Hajebifard, A., Berini, P., Zou, S., "Characterization and Applications of Gold Nanoparticle (AuNP) Arrays on Glass," 96th Canadian Chemistry Conference, Québec, Canada, May 2013

[C61] Alavirad, M., Siadat Mousavi, S., Roy, L., Berini, P., "Schottky-Contact Plasmonic Rectenna for Biosensing," 6th International Conference on Surface Plasmon Photonics – SPP6, Ottawa, Canada, May 2013

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[C59] Banan, B., Mirshafiei, M., Berini, P., Liboiron-Ladouceur, O., "Microwave and Optical Transmission on Metal Strip Plasmonic Waveguides," 6th International Conference on Surface Plasmon Photonics – SPP6, Ottawa, Canada, May 2013

[C58] Chen, C., Berini, P., "Broadside Surface Plasmon Grating Couplers for Biosensing," 6th International Conference on Surface Plasmon Photonics – SPP6, Ottawa, Canada, May 2013

[C57] Karami Keshmarzi, E., Tait, R. N., Berini, P., "Long-Range Surface Plasmon Single-Mode Laser Concepts," 6th International Conference on Surface Plasmon Photonics – SPP6, Ottawa, Canada, May 2013

[C56] Fan, H., Berini, P., "Noise Cancellation in Long-Range Surface Plamon Dual-Output Mach-Zehnder Interferometers," 6th International Conference on Surface Plasmon Photonics – SPP6, Ottawa, Canada, May 2013

[C55] Cervantes Tellez, G. A., Hassan, S., Tait, R. N., Berini, P., Gordon, R., "Ultra-flat Symmetric Elliptical Nanohole Arrays in a Gold Film for Ultrasensitive Refractive Index Sensing," 6th International Conference on Surface Plasmon Photonics – SPP6, Ottawa, Canada, May 2013

[C54] Yuan, J., Hajebifard, A., Berini, P., Zou, S., Wang, C., "Surface Plasmon Resonance of Gold Nanoparticle Arrays on Glass," 6th International Conference on Surface Plasmon Photonics – SPP6, Ottawa, Canada, May 2013

[C53] Fong, N., Berini, P., Tait, R. N., "Hydrogen Sensing with Long Range Surface Plasmon Polariton Waveguides," 6th International Conference on Surface Plasmon Photonics – SPP6, Ottawa, Canada, May 2013

[C52] Krupin, O., Wang, C., Berini, P., "Long-Range Surface Plasmon Polariton (LRSPP) Waveguides as (Bio)Chemical and Biological Sensors," Nano-ONTARIO Conference 2012, University of Waterloo, Waterloo, Canada, October 2012

[C51] Banan, B., Hai, M., Lisicka-Skrzek, E., Berini, P., Liboiron-Ladouceur, O., "49 Gbit/s Optical Transmission through Long-Range Surface Plasmon Polariton Waveguide," IEEE International Photonics Conference, Burlingame, USA, Sept. 2012

[C50] Fong, N., Berini, P., Tait, R. N., "Grating couplers for broadside coupling to membrane supported long-range surface plasmons," Photonics North: CIPI, Montréal, Canada, June 2012

[C49] Asiri, H., Khan, A., Lisicka-Skrzek, E., Tait, R. N., Berini, P., "Fabrication of Surface Plasmon Waveguides in Cytop," Photonics North: CIPI, Montréal, Canada, June 2012

[C48] Yuan, J., Berini, P., Zou, S., Wang, C., "Localized surface plasmon resonance (LSPR) enhanced fluorescence imaging," 95th Canadian Chemistry Conference, Calgary, Canada, May 2012

[C47] Caucheteur, C., Chen, C., Voisin, V., Berini, P., Albert, J. "Refractometric mode splitting in metal coated optical fibers," IEEE International Photonics Conference, Arlington, USA, October 2011

[C46] Niu, S., Chan, R., Zou, S., Berini, P., Wang, C., "Quantitative Determination of Cell Surface Markers on Chronic Lymphocytic Leukemia (CLL) Cells," 94th Canadian Chemistry Conference, Montréal, Canada, June 2011

[C45] Khan, A., Krupin, A., Lisicka-Skrzek, E., Berini, P., "Sensing of bacteria immobilised under static conditions using long-range surface plasmon waveguides in Cytop," Photonics North, Ottawa, Canada, May 2011

[C44] Fan, H., Lisicka-Skrzek, E., Berini, P., "Measurement of Long-Range Surface Plasmon-Polariton Devices in Cytop," Photonics North, Ottawa, Canada, May 2011

[C43] Fong, N., Berini, P., Tait, R. N., "Hydrogen Gas Sensing Using Membrane Supported Surface Plasmon Waveguides," Photonics North, Ottawa, Canada, May 2011

[C42] Rasouli Disfani, M., Abrishamian, M. S., Berini, P., "Scattering and Resonant Properties of Metallic "Teardrops"," 5th International Conference on Surface Plasmon Photonics – SPP5, Busan, South Korea, May 2011

[C41] Kim, S., Geary, K., Berini, P., Dalton, L. R., "Au and Ag Nano-particle embedded plasmonic metal-slotted polymer electro-optic waveguide modulator," Conference on Lasers and Electro-Optics (CLEO), Baltimore, USA, May 2011

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[C38] Krupin, O., Tencer, M., Berini, P., “Selective Functionalization of a Surface Plasmon Polariton Mach-Zehnder Interferometer for Biosensing,” Canadian Chemistry Conference, Toronto, Canada, May 2010, accepted

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[C36] Min, Q., Pang, Y., Chen, C., Berini, P., Gordon, R., “Long Range Surface Plasmons on an Asymmetric Suspended Waveguide Geometry,” SPIE Photonics North, Niagara Falls, Canada, June 2010, accepted

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[C30] De Leon Arizpe, I., Berini, P., “Surface plasmon-polariton mode amplification in long-range waveguides,” SPIE Photonics West, Vol. 6896, 68696OK, 2008

[C29] Buckley, R., Berini, P., “Figures of Merit for 2D Surface Plasmon-Polariton Waveguides,” 3nd International Conference on Surface Plasmon Photonics – SPP3, Dijon, France, June 2007

[C28] Berini, P., Mattiussi, G., Lahoud, N., and Charbonneau, R., “Long-range surface plasmon waveguides and devices in lithium niobate: Preliminary results,” SPIE Photonics West, Vol. 6475, pp. 64750U1-64750U7, January 2007

[C27] Berini, P., “Integrated optics based on long-ranging surface plasmon-polaritons: a review of recent progress,” 2nd International Conference on Surface Plasmon Photonics - SPP2, Graz, Austria, pp.33-34, May 2005

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[C16] Lévis, K., Roy, L., Berini, P., Ittipiboon, A., Petosa, A., "Ka-Band Holographic Antennas," USNC/URSI National Radio Science Meeting (IEEE Antennas and Propagation Symposium), p. 239, July 1999

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Invited papers in workshops:

[W16] Berini, P., "Surface plasmon photodetectors," Latin American Optics and Photonics Workshop, Cancun Mexico, November 2012‡

[W15] Berini, P., "Active surface plasmon photonics," Latin American Optics and Photonics Workshop, Cancun Mexico, November 2012‡

[W14] Berini, P., "Periodic structures in plasmonics," Photonic crystals: Fundamentals and applications, Ottawa, May 2012

[W13] Berini, P., "Active surface plasmon photonics," University of Minnesota Nanotechnology Workshop, Minneapolis MI, USA, November 2011‡

[W12] Berini, P., "Biosensing using plasmonic waveguides," Biomedical Optical Sensors - Differentiators for Winning Technologies, OSA Advanced Photonics Congress, Toronto, June 2011

[W11] Berini, P., "Fabrication of surface plasmon devices" Summer Institute in Nanofabrication, Emerging Communications Technology Institute, Toronto, June 2011‡

[W10] Berini, P., "Surface plasmons and their applications," Summer Institute in Nanofabrication, Emerging Communications Technology Institute, Toronto, June 2011‡

[W9] Berini, P., "Amplification and Lasing with Surface Plasmon Polaritons," US Army Research Office, Plasmonics Workshop, Duke University, Raleigh NC, USA, March 2011‡

[W8] Berini, P., "Label-Free Optical Biosensors," International Congress on Biophotonics – ICOB 2, Quebec City, Canada, September 2010; (Interactive roadmapping workshop for thought leaders in research, industry and government on the future of biophotonics)

[W7] Berini, P., De Leon, I., Akbari, A., "Active Surface Plasmon Photonics," Workshop on Nano-optics, Plasmonics, and Advanced Materials, NIST, Gaithersburg Maryland, April 2010

[W6] Berini, P., "Long-range surface plasmons: review and prospects for applications," XI Cross border workshop on laser science, Ottawa, May 2009

[W5] Berini, P., "Surface plasmons in planar structures: Dispersion, attenuation and prospects for application," Workshop in Dispersion Engineering, Emerging Communications Technology Institute, Toronto, 2008

[W4] Daviau, R., Fong, N., Tait, R. N., Berini, P., "Fabrication of surface plasmon waveguides on membranes," 2nd CPFR Workshop on advances in photonics fabrication, Ottawa, 2008

[W3] Berini, P., "Integrated optics based on long-range surface plasmons," 1st uOttawa – Taiwan International Workshop on Nanotechnology, University of Ottawa, Ottawa, 2008

[W2] Berini, P., "Photonic biosensors based on long-range surface plasmons", OCRI Research Event on Safety and Security, Ottawa, 2007

[W1] Berini, P., "Integrated optics based on surface plasmons: application to biosensors," OIDA Workshop: Biophotonic Sensors and Fiber Optic Sensor Networks, [American] Optoelectronics Industry Development Association, Fairport, New York, 2005

Invited book chapters:

[B6] Berini, P., "Loss compensation and amplification of surface plasmon-polaritons", in Active Plasmonics and Tuneable Plasmonic Metamaterials, Eds. Stefan A. Maier, Anatoly Zayats, John Wiley and Sons, 2013

[B5] Berini, P., “Surface plasmon-polariton based detectors,” in Encyclopedia of Nanotechnology, Editor-In-Chief Bharat Bhushan, Section Editor (Nano-Optical Devices) Maxim Sukharev, Springer, 2012

[B4] De Leon, I., Berini, P., “Amplification and lasing with surface-plasmon polaritons,” in Plasmonics and Plasmonic Metamaterials: Analysis and Applications, Ed. Gennady Shvets, Igor Tsukerman, World Scientific Series in Nanoscience and Nanotechnology, Vol. 4, World Scientific, 2012

[B3] Berini, P., “Surface plasmon-polariton waveguides and components,” in VLSI Micro- and Nanophotonics: Science, Technology, and Applications, Ed. El-Hang Lee, Louay Eldada, Manijeh Razeghi, Chennupati Jagadish, CRC Press, 2010

[B2] Berini, P., “Integrated Optics Based on Long-Range Surface Plasmon-Polaritons” in Surface Plasmon Nanophotonics, Ed. Pieter G. Kik and Mark L. Brongersma, Springer Series in Optical Sciences, Vol. 131, 2007

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