

Albert Polman

INVITED LECTURES at International Conferences

02	01	00	99	98	97	96	95	94	93	92
10	4	8	5	2	4	3	3	2	0	2

43

10	09	08	07	06	05	04	03
6	9	7	3	5	4	8	3

45

Total: 88

2010

Optical metamaterials (invited)

R. de Waele

2nd International Conference on Metamaterials, Photonic Crystals and Plasmonics, Cairo, Egypt, February 22-25, 2009

Plasmonic solar cells (invited)

A. Polman

MRS Spring Meeting, April 5-9, 2010

Plasmonic photovoltaics (invited keynote presentation)

A. Polman

SPIE Europe, Brussels, April 12-16, 2010

Plasmonic solar cells (invited)

A. Polman

OSA Optics and photonics Conference, Karlsruhe, June 21-24, 2010

Plasmonic solar cells (invited)

K.R. Catchpole

OSA Optics and photonics Conference, Karlsruhe, June 21-24, 2010

Plasmonics: from metamaterials to photovoltaics (invited)

A. Polman

iNANO summerschool, Aarhus, September 3-7, 2010

2009

Probing the nanoplasmonic density of states by cathodoluminescence imaging spectroscopy (invited)

A. Polman

NanoMeta conference, Seefeld, Austria, January 5-8, 2009

Plasmonics: optics at the nanoscale (invited)

A. Polman

CMOS Photonics Winter School, Trento, March 14-21, 2009

Nanofocusing in plasmonic nanowaveguides, nanotapers and nanocavities (invited)

A. Polman

MRS Spring Meeting, April 2009, San Francisco, CA

Plasmonics: optics at the nanoscale (invited keynote presentation)

A. Polman
QELS-CLEO Europe, June 16-19, 2009, Munich

Plasmonics applications (invited)

E.J. Vesseur (A. Polman)

International Workshop on Current Topics in Electron Microscopy, Ringberg, July 22-25, 2009

True nano-plasmonics: from nanoscale integrated circuits to nano-photovoltaics (invited keynote presentation)

A. Polman

SPIE Conference, San Diego, August 2-6, 2009

Plasmonics: optics at the nanoscale (invited keynote presentation)

A. Polman

Euromat, Glasgow, September 7-10, 2009

Plasmonics: optics at the nanoscale (invited)

A. Polman

Nanotech 2009, Berlin, September 2009

Plasmonic negative-index metamaterials (invited)

R. de Waele

IEEE Photonics Society Annual Meeting, Antalya, Turkey, October 4-8, 2009.

2008

Plasmonic photovoltaics (invited)

K. Catchpole

MRS Spring Meeting, March 2008, San Francisco, CA

Plasmonics on silicon (invited)

R. Walters

SEDWAL Workshop, Trento, April 14-16, 2008

Plasmonics – optics at the nanoscale (invited plenary presentation)

A. Polman

CLEO/QELS Conference, May 6-9, 2008, San Jose, CA

Plasmonics-integrated silicon photonics (invited)

A. Polman

E-MRS Strasbourg, May 26-30, 2008

Probing the nanoplasmonic density of states (invited)

A. Polman

Workshop on Ultrafast Nanooptics, Bad Honnef, June 2-4, 2008

Plasmonic photovoltaics (invited)

A. Polman

Gordon Research Conference “Plasmonics”, Keene, NH July 27 – August 1, 2008

Coupling to highly confined nanowire plasmons (invited)

E. Verhagen

SPIE Conference, August 2008, San Diego, CA

Plasmons in Photovoltaics (invited)

K.R. Catchpole
Frontiers in Optics Conference, October 20-24, Rochester (2008)

2007

Solving the emission bottleneck of rare earth emitters (invited)

A. Polman
E-MRS Strasbourg, May 28-31, 2007

Surface plasmon generation, propagation and detection (invited)

A. Polman
SPIE Meeting, August 26-30, 2007, San Diego, CA

Plasmonic photovoltaics (invited)

K. Catchpole / A. Polman
SPIE Meeting, August 26-30, 2007, San Diego, CA

2006

Surface plasmon generation, propagation and detection (invited)

A. Polman
International workshop on plasmonics and applications in nanotechnologies, Singapore, December 5-7, 2006

Ion beam synthesis of photonic nanomaterials (invited)

A. Polman
International Conference on ion beam modification of materials, Taormina, Italy, September 18-21, 2006

Silicon-based photonics (invited)

A. Polman
European MRS Conference, Nice, May 29 – June 1, 2006

Silicon-based lasers and light sources (invited)

A. Polman
MRS Spring Meeting, San Francisco, CA, April 17-21, 2006

Silicon-based lasers and light sources, Surface plasmon nanophotonics (invited)

A. Polman
Opto-electronics winterschool, Pontresina, March 13-16, 2006

2005

Scattering and sensitizing in erbium and silicon nanocrystal-doped toroidal microcavities (invited)

A. Polman
International Conference on Group-IV materials, Antwerp, September 2005

Ion beam shaping of nanomaterials (invited)

A. Polman
Sixth international symposium on swift heavy ions in matter, Aschaffenburg, Germany, May 28-31, 2005

Microcavity controlled emission from rare earth ions (invited)

A. Polman
MRS Spring Meeting, San Francisco, March 31, 2005

Surface plasmon nanophotonics: optics below the diffraction limit (invited)

A. Polman

PPM Conference, Utrecht, February 10, 2005

2004

Ultra-low-threshold erbium-implanted toroidal microlaser on silicon (invited)

A. Polman

MRS Spring Meeting, San Francisco, April 13-16, 2004

Towards an erbium-doped silicon laser (invited)

A. Polman

MRS Spring Meeting, San Francisco, April 13-16, 2004

Ultra-low-threshold erbium-implanted toroidal microlaser on silicon (invited)

A. Polman

IEEE-LEOS Workshop, Eindhoven, May 10, 2004

Er-doped Si nanocrystal sensitized microcavity lasers and amplifiers (invited)

A. Polman

OSA International Conference on Optical Amplifiers, Monterey, CA, June 27-30, 2004

Ion beam shaping of nanomaterials (invited)

A. Polman

IBMM, Asilomar, CA, Sept. 5-10, 2004.

Ultra-low-threshold erbium-implanted toroidal microlaser on silicon (invited)

A. Polman

Nanophotonics Research Workshop, Stanford, CA, September 13-15, 2004

Coupling Si quantum dots to surface plasmons (invited)

A. Polman

MRS Fall Meeting, November 29 - December 3, 2004

Self-organized formation of erbium-silicon-oxide superlattice (invited)

H. Isshiki

MRS Fall Meeting, November 29 - December 3, 2004

2003

Modified spontaneous emission in erbium-doped microstructures (invited)

A. Polman

E-MRS Meeting, Strassbourg, June 10-13, 2003

Electrically excitable erbium-silicon-oxide complexes by wet chemical synthesis (invited)

H. Isshiki

MRS Spring Meeting, San Francisco, April 21-25, 2003

Silicon photonics

A. Polman

SRC Summer Study, Santa Fe, NM, June 23, 2003

2002

Miniature rare-earth doped optical amplifiers (invited)

C. Strohhöfer

Photonics West, San Jose, CA, USA, January 20-25, 2002

Rare earth luminescence and the local optical density of states (invited)

C. Strohhöfer

Photonics West, San Jose, CA, USA, January 20-25, 2002

Silicon microphotonic crystals (invited)

A. Polman

E-MRS, Strassbourg, May 20, 2002

Silicon photonic crystals (invited)

M.J.A. de Dood

Nanoscale optics and Applications, SPIE, July 7-11, 2002, Seattle

Ion irradiation of core-shell colloids: shape change and plasmon shift (invited)

S. Roorda

International conference on ion beam modification of materials (IBMM), Kobe, Japan, September 1-6, 2002

Sensitized erbium-doped planar optical amplifiers (invited)

A. Polman

European Conference on Optical Communications (ECOC), Copenhagen, September 9-12, 2002

Towards an Er-doped Si nanocrystal sensitized waveguide laser – the thin line between gain and loss (invited)

P. Kik

NATO Workshop *Towards a silicon laser*, Trento, Italy, September 22-25, 2002

Optical gain perspective of silicon nanocrystals (invited)

A. Polman

NATO Workshop *Towards a silicon laser*, Trento, Italy, September 22-25, 2002

Metallo-dielectric nanostructures for microphotronics (invited)

A. Polman

International Workshop on Nanostructures for electronics and optics, Rossendorf, October 7-9, 2002

Silicon photonic crystals (invited)

M.J.A. de Dood

Photonic Nanostructures 2002, October 24-25, San Diego, CA

2001

Radiation-induced plastic flow of silica glass

A. Polman

Gordon conference on materials processes far from equilibrium, Meriden, NH, USA, July 1-6, 2001

Exciting lanthanide implanted photonic materials

A. Polman

11th International conference on radiation effects in insulators, Lisbon, Portugal, September 3-7, 2001

Silicon microphotronics

A. Polman

MRS Fall Meeting, Boston, November 26-30, 2001

Metallo-dielectric photonic materials

A. Polman

MRS Fall Meeting, Boston, November 26-30, 2001

2000

Exciting rare-earth doped optical waveguide materials (invited)

A. Polman

SPIE-Photonics West, January 24-28, 2000

Fabrication and characterization of silicon-based photonic bandgap materials (invited)

A. Polman

International Workshop on Photonic and Electromagnetic Crystal Structures, Sendai, Japan, March, 8-10, 2000

Ion irradiation-induced plastic deformation of colloidal particles (invited)

A. Polman

E-MRS, Strasbourg, June 1-4, 2000

Silicon microphotronics (invited)

A. Polman

E-MRS, Strasbourg, June 1-4, 2000

Energy transfer in Er-doped Si-nanocrystal/SiO₂ nanocomposite layers (invited)

A. Polman (P.G. Kik)

E-MRS, Strasbourg, June 1-4, 2000

1, 2, and 3 dimensional photonic materials made using ion beams: fabrication and optical density of states (invited)

A. Polman

Photonic crystals and light localization, NATO advanced study institute, Crete, June 19-30, 2000

Plastic deformation of colloidal particles by ion irradiation (invited)

A. Polman

12th International conference on ion beam modification of materials, Porto Allegre, Brazil, September 2000

Plastic deformation of colloidal particles by ion irradiation (invited)

A. Polman

MRS Fall Meeting, Boston, November 2000

1999

Energy transfer processes in erbium-doped silicon (invited)

P.G. Kik

3rd International Workshop on Spectroscopy and Structure of Rare Earth Systems, Szklarska Poreba, Poland, April 26-May 1, 1999.

New light on the optical properties of Si nanocrystals embedded in SiO₂ (invited)

M.L. Brongersma

E-MRS, Strasbourg, May 1999.

Electrical and optical properties of ion beam synthesized nanocrystals in SiO₂ (invited)

M.L. Brongersma

Gordon research conference of materials processes far from equilibrium, Plymouth, NW, USA, July 11-16, 1999

Controlling the shape of colloidal particles by ion irradiation (invited)

T. van Dillen

Gordon research conference of materials processes far from equilibrium, Plymouth, NW, USA, July 11-16, 1999

Energy transfer processes in erbium-doped Si nanocrystals (invited)

P.G. Kik

ESF-NANO Meeting, Duisburg, Germany, December 8,9, 1999

1998

Silicon-based integrated optics lecture series (invited)

A. Polman

Enrico Fermi Summerschool on Si-based microphotonics, Varenna, Italy, July 21-31, 1998

Erbium-on-silicon hybrid integrated-optics technology (invited)

A. Polman

Annual Meeting Optical Society of America, Baltimore, October 5-9, 1998

1997

A miniature Er-doped Al₂O₃ optical amplifier operating at 1.53 μm

P.G. Kik (invited)

CLEO, San Jose, February 1997

How to build an Er-doped optical amplifier (invited)

A. Polman

Miniature coherent light sources, Summer School Les Houches, France, June 2-3, 1997

Thermal spikes, plastic flow, deformation and defect kinetics during MeV ion irradiation of silica (invited)

A. Polman

Materials processes far from equilibrium, Gordon research conference, Meriden, NH, USA, August 17-22, 1997

Atomic scale bandstructure engineering to obtain light from Si: Si nanocrystals and erbium-doped Si (invited)

A. Polman

Italian national meeting on light emitting silicon, Bologna, October 27-28, 1997

1996

Optical properties of erbium-doped silicon (invited)

A. Polman

European MRS Spring Meeting, Strassbourg, June 4-7, 1996

An erbium-implanted Al₂O₃ optical waveguide amplifier (invited)

A. Polman

European MRS Spring Meeting, Strassbourg, June 4-7, 1996

Ion beam synthesis of opto-electronic materials (invited)

A. Polman

Canadian Association of Physics Conference, Ottawa, June 16-19, 1996

1995

Ion beam synthesis of planar opto-electronic devices (invited)

A. Polman

9th International conference on Ion Beam Modification of Materials, Canberra, Australia, February 6-10, 1995

Optical doping of silicon (invited)

A. Polman

Conference on Basic Technology of electronic devices, Grossarl, Austria, April 7, 1995

Measuring and modifying the spontaneous emission of erbium near an interface (invited)

A. Polman

Conference on quantum optics in wavelength scale structures, Cargese, August 26-31, 1995

1994

Erbium in crystal silicon: incorporation, luminescence and thermal stability in Czochralski and float zone grown silicon (invited)

J.H. Shin

Workshop on rare earth doping of semiconductors, Malibu, CA, 16-17 June, 1994

Ion implantation of erbium in optical waveguide materials (invited)

A. Polman

Summer School on Rare-earth doped optical waveguide materials, Les Houches, France, June 13-23, 1994

1992

Ion implantation for optical doping of semiconductors (invited)

A. Polman

8th International Conference on Ion Beam Modification of Materials, Heidelberg, 10 september 1992

MeV erbium implantation into optical waveguide materials (invited)

A. Polman

Workshop on Integrated Optical Solid State Lasers and Quasi-Phasematched Nonlinear Devices, Berlijn, 24 september 1992