

A1.4 (G. v. Freymann / M. Wegener)

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Subproject A1.4 Invited Talks at International Conferences (2006-2013)

M. Wegener, K. Arnold, K. Busch, M. Deubel, C. Enkrich, D. Fenske, G. von Freymann, M. Hermatschweiler, S. John, M. Kappes, A. Kaso, S. Linden, G.A. Ozin, S. Pereira, F. Pérez-Willard, C.M. Soukoulis, N. Tétreault, and S.H. Wong, *Fabrication of novel photonic devices via multi-photon micro- and nano-scale patterning*, 231st National Meeting of the American Chemical Society, Symposium on Micro- and nanoscale patterning via multi-photon activated processes, Atlanta (U.S.A.), March 26-30, 2006

M. Wegener, *Three-dimensional photonic crystals*, Symposium on Nano-Electronics, Canadian Institute of Advanced Research (CIAR), Mont Tremblant (Canada), March 31 - April 1, 2006

M. Hermatschweiler, G. von Freymann, and M. Wegener, *Three-dimensional silicon-based photonic crystals*, 3rd International Topical Meeting on Nanostructured and Nanotechnology Materials NANOTECH 2006, Puebla (Mexico), September 24-28, 2006

G. von Freymann, M. Deubel, M. Hermatschweiler, A. Ledermann, S. Linden, M. Thiel, S. Wong, N. Tétreault, L. Cademartiri, G.A. Ozin, S. John, D. Wiersma, and M. Wegener, *Complex three-dimensional materials for photonics*, International Conference Photonics West, San Jose (U.S.A.), January 20-25, 2007

M. Thiel, M. Decker, M. Deubel, S. Linden, G. von Freymann, and M. Wegener, *Polarization stop bands in chiral three-dimensional photonic crystals*, International Conference Photonics West, San Jose (U.S.A.), January 20-25, 2007

M. Hermatschweiler, M. Thiel, G.A. Ozin, G. von Freymann, and M. Wegener, *Three-dimensional Photonic Crystals via direct laser writing and silicon double inversion*, Symposium on *Three-Dimensional Nano and Microphotonics*, Spring Meeting of the Materials Research Society (MRS), San Francisco (U.S.A.), April 9-13, 2007

M. Hermatschweiler, S.H. Wong, A. Ledermann, M. Wegener, G.A. Ozin, and G. von Freymann, *New routes to three-dimensional photonic band-gap materials*, Spring Meeting of the Materials Research Society (MRS), San Francisco (U.S.A.), April 9-13, 2007

A. Ledermann, L. Cademartiri, M. Hermatschweiler, C. Toninelli, G.A. Ozin, D.S. Wiersma, M. Wegener, and G. von Freymann, *Three-dimensional Photonic Quasicrystals: Fabrication*

and Characterization, International Summer School on Quantum Electronics, 44th Course: Advances on Nanophotonics II, Erice (Italy), June 22 - July 2, 2007

M. Wegener, *Photonic crystals and metamaterials*, Werner and Else Heraeus Summer School "Photonics Design", Rauschholzhausen (Germany), September 10-14, 2007

M. Wegener, *Photonic Crystals and Metamaterials: Tailored Optical Materials for the 21st Century*, "NanoScience Days", Nanoscience Center, University of Jyväskylä (Finland), October 25-26, 2007

M. Bastmeyer, F. Bonhoeffer, G. von Freymann, Z. Jiang, F. Klein, A. von Philipsborn, T. Striebel, and M. Wegener, *2D and 3D micropatterned substrates to study cellular reactions*, 11th Annual European Conference On Micro & Nanoscale Technologies for the Biosciences, Montreux (Switzerland), November 14-16, 2007

M. Wegener, *3D Photonic crystals and metamaterials: Band gaps, chirality, quasicrystals, and magnetism*, Fall Meeting of the Materials Research Society (MRS), Boston (U.S.A.), November 26-30, 2007

M. Wegener and G. von Freymann, *Progress on Fabrication of Three-Dimensional Nanostructures for Photonics*, SPIE International Conference Photonics West, "Photonic Crystal Materials and Devices", San Jose (U.S.A.), January 19-24, 2008

M. Wegener, *Periodic Nanostructures for Photonics: An Introduction*, 403rd International Seminar on *Periodic Nanostructures for Photonics*, Werner and Else Heraeus Foundation, Bad Honnef (Germany), February 27-29, 2008

M. Thiel, G. von Freymann, and M. Wegener, *Three-Dimensional Chiral Photonic Crystals*, 2007 Progress in Electromagnetic Research Symposium (PIERS), Hangzhou (China), March 24-28, 2008

M. Wegener, M. Hermatschweiler, M. Thiel, M.S. Rill, C. Plet, A. Ledermann, I. Staude, S. Linden, and G. von Freymann, *3D Photonic Nanostructures by Direct Laser Writing*, National Conference PHOTON-08, Edinburgh (United Kingdom), August 26-29, 2008

M.S. Rill, C. Plet, M. Thiel, A. Frölich, I. Staude, M. Wegener, G. von Freymann, and S. Linden, *Towards 3D Isotropic Photonic Metamaterials via Direct Laser Writing*, The 2nd European Topical Meeting on Nanophotonics and Metamaterials, Seefeld (Austria), January 5-8, 2009

M. Thiel, G. von Freymann, and M. Wegener, *Towards isotropic 3D chiral photonic crystals*, SPIE International Conference *Photonics West, Photonic Crystal Materials and Devices*, San Jose (U.S.A.), January 24-29, 2009

H.M. Gibbs, G. Khitrova, B.C. Richards, J. Hendrickson, J. Sweet, J.D. Oritzky, U. Khankhoje, A. Scherer, D.M. Schaadt, D.Z. Hu, M. Helfrich, D. Litvinov, D. Gerthsen, and M. Wegener, *Strongly Coupled Single-Quantum-Dot Nanocavity System: From Vacuum Rabi Splitting to Lasing*, **Invited Plenary Talk**, 40th Winter Colloquium on the *Physics of Quantum Electronics*, Snowbird (U.S.A.), January 3-7, 2010

G. von Freymann, A. Ledermann, and M. Wegener, Design and fabrication of three-dimensional rhombicuboctahedral photonic quasicrystals, International Conference *Photonics West, Photonic and Phononic Crystal Materials and Devices*, San Francisco (U.S.A.), January 25-28, 2010

M. Wegener, *3D Chiral photonic crystals and metamaterials*, **Invited Plenary Talk**, 2nd International Conference on "Metamaterials, Photonic Crystals and Plasmonics", Cairo (Egypt), February 22-25, 2010

G. von Freymann, S. Linden, M. Wegener, K. Bade, V. Saile, M. Thiel, M.S. Rill, M. Decker, and J.K. Gansel, *Novel Optical Materials and Devices by Direct Laser Writing*, OSA Topical Meeting *Optical Fabrication and Testing*, Jackson Hole (U.S.A.), June 13-16, 2010

K. Busch and M. Wegener, *Photonic Crystals and Photonic Metamaterials*, European Summer Campus 2010, *Metamaterials: "Why light bends the wrong way", "Why things don't fall down"*, Strasbourg (France), June 27 - July 5, 2010

J. Fischer, G. von Freymann, and M. Wegener, *Towards diffraction-unlimited 3D direct-laser-writing lithography*, 36th International Conference on Micro- and Nano-Engineering MNE 2010, Genoa (Italy), September 19-22, 2010

G. von Freymann, M. Thiel, J. Fischer, I. Staude, and M. Wegener, *Direct Laser Writing for Nanophotonics*, International Conference *Photonics West*, San Francisco (U.S.A.), January 22-27, 2011

J. Fischer, T. Ergin, and M. Wegener, *3D photonic metamaterials by diffraction-unlimited laser lithography*, **Invited Plenary Talk**, European Optical Society (EOS) Topical Meeting on Diffractive Optics, Delft (The Netherlands), February 27 - March 1, 2012

J. Fischer, T. Ergin, and M. Wegener, *Recent progress on diffraction-unlimited three-dimensional direct-laser-writing optical lithography*, International Conference Photonics West, Advanced Fabrication Technologies for Micro/Nano Optics and Photonics V, San Francisco (U.S.A.), January 21-26, 2012

J. Fischer, T. Ergin, and M. Wegener, *Towards diffraction-unlimited 3D optical nanostructuring of polymers*, International High-Power Laser Ablation (HPLA) Conference, Santa Fe (U.S.A.), April 30 - May 3, 2012

I. Staude, Ch. McGuinness, A. Frölich, R.L. Byer, E. Colby, and M. Wegener, *First steps towards nano-photonic particle accelerators on a chip*, International Conference Photonics West, Photonic and Phononic Properties of Engineered Nanostructures, San Francisco (U.S.A.), January 21-26, 2012

G. von Freymann, F. Klein, B. Richter, T. Striebel, C.M. Franz, M. Wegener, and M. Bastmeyer, *Towards designer extracellular matrices*, International Conference Photonics West, Frontiers in Ultrafast Optics: Biomedical, Scientific, and Industrial Applications XII, San Francisco (U.S.A.), January 21-26, 2012

M. Wegener, *3D Laser Lithography Beyond the Diffraction Limit*, **Invited Plenary Talk**, 13th International Symposium in Laser Precision Microfabrication (LPM 2012), Washington D.C. (U.S.A.), June 12-15, 2012

M. Kadic, T. Bückmann, N. Stenger, M. Thiel, and M. Wegener, *Experiments on mechanical metamaterials*, White Nights Workshop Exotic Structures and Homogenization, St. Petersburg (Russia), July 4-6, 2012

M. Wegener, *Three-dimensional metamaterials made by direct laser writing*, **Invited Plenary Talk**, International Conference Photonics West, San Francisco (U.S.A.), February 2-7, 2013

M. Wegener, *Diffraction-unlimited three-dimensional optical lithography*, **Invited Keynote Talk**, The 8th Annual IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE-NEMS 2013), Suzhou (China), April 7-10, 2013

M. Wegener, *Three-dimensional optical laser lithography: No limits?*, **Invited Keynote Talk**, 2nd international conference "ImagineNano", Bilbao (Spain), April 23-26, 2013

J. Fischer and M. Wegener, *Three-dimensional multi-photon lithography below the diffraction limit*, International Conference on Additive Manufacturing & 3D Printing, Nottingham (U.K.), July 9-10, 2013

J. Fischer and M. Wegener, *Diffraction-unlimited optical lithography in three dimensions*, The 34th Progress In Electromagnetics Research Symposium (PIERS), Stockholm (Sweden), August 12-15, 2013

M. Wegener, *Three-dimensional laser lithography*, **Invited Plenary Talk**, 39th International Conference on Micro and Nano Engineering (MNE2013), London (U.K.), September 16-19, 2013

M. Wegener, *Status and challenges of three-dimensional optical laser lithography*, Optical Society of America (OSA) Annual Meeting "Frontiers in Optics", Orlando (U.S.A.), October 6-10, 2013

M. Wegener, *3D Optical Laser Lithography: No Limits?*, 5th Peter Brojde Conference on Innovation in Engineering and Computer Science, Jerusalem (Israel), October 15, 2013

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