

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

- [A1.4:1] *‡ N. Tétreault, G. von Freymann, M. Deubel, M. Hermatschweiler, F. Pérez-Willard, S. John, M. Wegener, and G.A. Ozin, *New Route towards Three-Dimensional Photonic Bandgap Materials: Silicon Double Inversion of Polymeric Templates*, *Adv. Mater.* **18**, 457 (2006)
- [A1.4:2] *‡ S. Wong, M. Deubel, F. Pérez-Willard, S. John, G.A. Ozin, M. Wegener, and G. von Freymann, *Direct laser writing of three-dimensional Photonic Crystals with a complete photonic bandgap in chalcogenide glasses*, *Adv. Mater.* **18**, 265 (2006)
- [A1.4:3] ‡ M. Deubel, M. Wegener, G. von Freymann, S. Linden, and S. John, *3D-2D-3D photonic crystal heterostructures fabricated by direct laser writing*, *Opt. Lett.* **31**, 805 (2006)
- [A1.4:4] * D.C. Meisel, M. Diem, M. Deubel, F. Pérez-Willard, S. Linden, D. Gerthsen, K. Busch, and M. Wegener, *Shrinkage Pre-Compensation of Holographic Three-dimensional Photonic Crystals*, *Adv. Mater.* **18**, 2964 (2006)
- [A1.4:5] ‡ A. Ledermann, L. Cademartiri, M. Hermatschweiler, C. Toninelli, G.A. Ozin, D.S. Wiersma, M. Wegener, and G. von Freymann, *Three-dimensional silicon inverse photonic quasicrystals for infrared wavelengths*, *Nature Mater.* **5**, 942 (2006)
- [A1.4:6] C. Becker, M. Wegener, S. Wong, and G. von Freymann, *Phase-matched non-degenerate four-wave mixing in one-dimensional photonic crystals*, *Appl. Phys. Lett.* **89**, 131122 (2006)
- [A1.4:7] * K. Busch, G. von Freymann, S. Linden, S. Mingaleev, L. Tkeshelashvili, and M. Wegener, *Periodic nanostructures for photonics*, *Phys. Rep.* **444**, 101 (2007)
- [A1.4:8] M. Thiel, M. Decker, M. Deubel, M. Wegener, S. Linden, and G. von Freymann, *Polarization stop bands in chiral polymeric three-dimensional photonic crystals*, *Adv. Mater.* **19**, 207 (2007)
- [A1.4:9] ‡ M. Hermatschweiler, A. Ledermann, M. Wegener, G.A. Ozin, and G. von Freymann, *Fabrication of infrared silicon inverse woodpile photonic crystals*, *Adv. Funct. Mater.* **17**, 2273 (2007)
- [A1.4:10] *‡ S.H. Wong, M. Thiel, P. Brodersen, D. Fenske, G.A. Ozin, M. Wegener, and G. von Freymann, *Highly Selective Wet Etch for High Resolution Direct Laser Writing of Three-dimensional Nanostructures in Arsenic Sulphide All Inorganic Photoresist*, *Chem. Mater.* **19**, 4213 (2007)
- [A1.4:11] M. Thiel, M. Hermatschweiler, M. Wegener, and G. von Freymann, *Thin-film polarizer based on a 1D-3D-1D photonic crystal heterostructure*, *Appl. Phys. Lett.* **91**, 123515 (2007)
- [A1.4:12] A. Ledermann, G. von Freymann, and M. Wegener, *Photonische Quasikristalle – Laue Beugung auf dem Schreibtisch*, *Phys. Unserer Zeit* **38**, 300 (2007)
- [A1.4:13] M. Thiel, G. von Freymann, and M. Wegener, *Layer-by-layer three-dimensional chiral photonic crystals*, *Opt. Lett.* **32**, 2547 (2007)
- [A1.4:14] *‡ S.H. Wong, O. Kiowski, M. Kappes, J. Lindner, N. Mandal, F.C. Peiris, G.A. Ozin, M. Thiel, M. Braun, M. Wegener, and G. von Freymann, *Spatially localized photoluminescence at 1.5 micrometers wavelength in direct laser written 3D structures*, *Adv. Mater.* **20**, 1 (2008)
- [A1.4:15] ‡ J. Hendrickson, B.C. Richards, J. Sweet, G. Khitrova, A.N. Poddubny, E.L. Ivchenko, M. Wegener, and H.M. Gibbs, *Excitonic Polaritons in Fibonacci Quasicrystals*, *Opt. Express* **16**, 15382 (2008)

- [A1.4:16] *‡ B.C. Richards, J. Hendrickson, J. Sweet, G. Khitrova, D. Litvinov, D. Gerthsen, B. Myer, S. Pau, D. Sarid, M. Wegener, E.L. Ivchenko, A.N. Poddubny, and H.M. Gibbs, *Attempts to grow optically coupled Fibonacci-spaced InGaAs/GaAs quantum wells always result in surface gratings*, Opt. Express **16**, 21512 (2008)
- [A1.4:17] *‡ A. Ledermann, D.S. Wiersma, M. Wegener, and G. von Freymann, *Multiple scattering of light in three-dimensional photonic quasicrystals*, Opt. Express **17**, 1844 (2009)
- [A1.4:18] *‡ M. Werchner, M. Schafer, M. Kira, S.W. Koch, J. Sweet, J.D. Olitzky, J. Hendrickson, B.C. Richards, G. Khitrova, H.M. Gibbs, A.N. Poddubny, E.L. Ivchenko, M. Voronov, and M. Wegener, *One Dimensional Resonant Fibonacci Quasicrystals: Noncanonical Linear and Canonical Nonlinear Effects*, Opt. Express **17**, 6813 (2009)
- [A1.4:19] M. Thiel, M.S. Rill, G. von Freymann, and M. Wegener, *Three-dimensional bi-chiral photonic crystals*, Adv. Mater. **21**, 4680 (2009)
- [A1.4:20] *‡ J. Sweet, B.C. Richards, J.D. Olitzky, J. Hendrickson, G. Khitrova, H.M. Gibbs, D. Litvinov, D. Gerthsen, D.Z. Hu, D.M. Schadt, M. Wegener, U. Khankhoje, and A. Scherer, *GaAs photonic crystal slab nanocavities: growth, fabrication, and quality factor*, Photonics and Nanostructures **8**, 1 (2010)
- [A1.4:21] A. Chernikov, S. Horst, S.W. Koch, S. Chatterjee, W.W. Rühle, J. Sweet, B. Richards, J. Hendrickson, G. Khitrova, H.M. Gibbs, D. Litvinov, D. Gerthsen, and M. Wegener, *Intra-dot relaxation and dephasing rates from time-resolved photoluminescence from InAs quantum dot ensembles*, Solid State Commun. **149**, 1485 (2009)
- [A1.4:22] * F. Klein, T. Striebel, J. Fischer, Z. Jiang, C. Franz, G. von Freymann, M. Wegener, and M. Bastmeyer, *Tailored three-dimensional microstructure templates for cell growth studies*, Adv. Mater. **22**, 868 (2010)
- [A1.4:23] * G. von Freymann, A. Ledermann, M. Thiel, I. Staude, S. Essig, K. Busch, and M. Wegener, *Three-Dimensional Nanostructures for Photonics*, Adv. Funct. Mater. **20**, 1038 (2010)
- [A1.4:24] M. Thiel, H. Fischer, G. von Freymann, and M. Wegener, *Three-dimensional chiral photonic superlattices*, Opt. Lett. **35**, 166 (2010)
- [A1.4:25] A. Ledermann, M. Wegener, and G. von Freymann, *Rhombicuboctahedral three-dimensional photonic quasicrystals*, Adv. Mater. **22**, 2363 (2010)
- [A1.4:26] * I. Staude, M. Thiel, S. Essig, C. Wolff, K. Busch, G. von Freymann, and M. Wegener, *Fabrication and characterization of silicon woodpile photonic crystals with a complete band gap at telecom wavelengths*, Opt. Lett. **35**, 1094 (2010)
- [A1.4:27] J. Fischer, G. von Freymann, and M. Wegener, *The materials challenge in diffraction-unlimited direct-laser-writing optical lithography*, Adv. Mater. **22**, 3578 (2010)
- [A1.4:28] M. Thiel, J. Fischer, G. von Freymann, and M. Wegener, *Direct laser writing of three-dimensional submicron structures using a continuous-wave laser at 532 nm*, Appl. Phys. Lett. **97**, 221102 (2010)
- [A1.4:29] * F. Klein, B. Richter, T. Striebel, C.M. Franz, G. von Freymann, M. Wegener, and M. Bastmeyer, *Two-component Polymer Scaffolds for Controlled Three-dimensional Cell Culture*, Adv. Mater. **23**, 1341 (2011)

- [A1.4:30] * I. Staude, G. von Freymann, S. Essig, K. Busch, and M. Wegener, *Waveguides in three-dimensional photonic-band-gap materials by direct laser writing and silicon double inversion*, Opt. Lett. **36**, 67 (2011)
- [A1.4:31] *‡ J. Hendrickson, M. Helfrich, M. Gehl, D. Hu, D. Schaadt, S. Linden, M. Wegener, B. Richards, H. Gibbs, and G. Khitrova, *InAs quantum dot site-selective growth on GaAs substrates*, phys. stat. sol. (c) **8**, 1242 (2011)
- [A1.4:32] *‡ M. Helfrich, D.Z. Hu, J. Hendrickson, M. Gehl, D. Rülke, R. Gröger, D. Litvinov, S. Linden, M. Wegener, D. Gerthsen, T. Schimmel, M. Hetterich, H. Kalt, G. Khitrova, H.M. Gibbs, and D.M. Schaadt, *Growth and annealing of InAs quantum dots on pre-structured GaAs substrates*, J. Crystal Growth **323**, 187 (2011)
- [A1.4:33] * M. Thiel, J.K. Gansel, M. Wegener, and G. von Freymann, *Künstliche chirale Materialien: Wenn das Licht den Dreh raus hat*, Phys. Unserer Zeit **42**, 70 (2011)
- [A1.4:34] * T.J.A. Wolf, J. Fischer, M. Wegener, and A.-N. Unterreiner, *Pump-probe spectroscopy on photoinitiators for stimulated-emission-depletion optical lithography*, Opt. Lett. **36**, 3188 (2011)
- [A1.4:35] J. Fischer and M. Wegener, *Three-dimensional direct laser writing inspired by stimulated-emission-depletion microscopy*, Opt. Mater. Express **1**, 614 (2011)