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List of publications

Refereed journal articles:

Number of citations (Cit.) taken from *Google Scholar (03/2018)*.
Impact factors (I.F.) are based on *ISI Web Of Knowledge (2016)*.
Total number of citations: 2881
h-index: 26

Up-to date citation metrics are available at my Google Scholar profile:
http://scholar.google.de/citations?user=HPqyVz8AAAAJ&hl=de

1. S. Fasold, S. Linß, T. Kawde, M. Falkner, M. Decker, T. Pertsch, and **I. Staude**, "Disorder-enabled pure chirality in bilayer plasmonic metasurfaces", *ACS Photonics*, Article ASAP DOI: 10.1021/acsphotonics.7b01460 (2018).
2. A. Vaskin, J. Bohn, K. Chong, M. Zilk, T. Bucher, D. Choi, D. Neshev, T. Pertsch, and **I. Staude**, "Directional and Spectral Shaping of Light Emission with Mie-Resonant Silicon Nanoantenna Arrays," *ACS Photonics*, Articles ASAP DOI: 10.1021/acsphotonics.7b01375 (2018).
3. S. Liu, P. P. Vabishchevich, A. Vaskin, J. L. Reno, G. A. Keeler, M. B. Sinclair, **I. Staude**, I. Brener , "An optical metamixer", arXiv:1711.00090 [physics.optics] (2017).
   Cit. 1
4. D. Arslan, K. E. Chong, A. Miroshnichenko, D.-Y. Choi, D. Neshev, T. Pertsch, Y. S. Kivshar and **I. Staude**, "Angle-selective all-dielectric Huygens' metasurfaces", *J. Phys. D: Appl. Phys*. **50** 434002 (2017).
   I.F. 2.588, Cit. 1
5. S. Liu, A. Vaskin, S. Campione, O. Wolf, M. B. Sinclair, J. Reno, G. A. Keeler, **I. Staude**, I. Brener, "Huygens' metasurfaces enabled by magnetic dipole resonance tuning in split dielectric nanoresonators", *Nano Lett.* **17** (7), 4297–4303 (2017).
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6. R. Guo, M. Decker, F. Setzpfandt, X. Gai, D.-Y. Choi, R. Kiselev, A. Chipouline, **I. Staude**, T. Pertsch, D. N. Neshev, Yu. S. Kivshar, "High-bit-rate ultra-compact light routing with mode selective on-chip nanoantennas", *Science Advances* **3**, e1700007 (2017).
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7. M. R. Shcherbakov, S. Liu, V. V. Zubyuk, A. Vaskin, P. P. Vabishchevich, G. Keeler, T. Pertsch, T. V. Dolgova, **I. Staude**, I. Brener, and A. A. Fedyanin "Ultrafast all-optical tuning of direct-gap semiconductor metasurfaces", *Nat. Commun.* **8**, 17 (2017).
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8. **I. Staude** und J. Schilling, "Metamaterial-inspired silicon nanophotonics", *Nature Photon.* **11**, 274–284 (2017).
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9. N. Bontempi, K. E. Chong, H. W. Orton, **I. Staude**, D.-Y. Choi, I. Alessandri, Yu. S. Kivshar, and D. N. Neshev, "Highly sensitive biosensors based on all-dielectric nanoresonators", *Nanoscale* **9**, 4972-4980 (2017).
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10. A. Komar, Z. Fang, J. Bohn, J. Sautter, M. Decker, A. Miroshnichenko, T. Pertsch, I. Brener, Yu. S. Kivshar, **I. Staude**, and D. N. Neshev, „Electrically Tunable All-Dielectric Metasurfaces", *Appl. Phys. Lett.* **110**, 071109 (2017).
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11. M. Decker, T. Pertsch, and **I. Staude**, "Strong Coupling in hybrid metal-dielectric nanoresonators", *Phil. Trans. R. Soc. A* **375**, 20160312 (2017).
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12. K. E. Chong, H. W. Orton, **I. Staude**, M. Decker, A. E. Miroshnichenko, I. Brener, Yu. S. Kivshar, and D. N. Neshev, "Refractive index sensing with Fano resonances in silicon oligomers", *Phil. Trans. R. Soc. A* **375**, 20160070 (2017).
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13. E. V. Melik-Gaykazyan, M. R. Shcherbakov, A. S. Shorokhov, **I. Staude**, I. Brener, D. N. Neshev, Yu. S. Kivshar, and A. A. Fedyanin "Third-harmonic generation from Mie-type resonances of isolated all-dielectric nanoparticles", *Phil. Trans. R. Soc. A* **375**, 20160281 (2017).
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14. M. Decker and **I. Staude**, "Resonant Dielectric Nanostructures: A Low-Loss Platform for Functional Nanophotonics", *J. Opt.* **18**, 103001 (2016).
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15. S. Liu, M. B. Sinclair, S. Saravi, G. A. Keeler, Y. Yang, J. Reno, G. M. Peake, F. Setzpfandt, **I. Staude**, T. Pertsch, and I. Brener "Resonantly Enhanced Second-Harmonic Generation Using III−V Semiconductor All-Dielectric Metasurfaces", *Nano Lett.* **16**, 5426–5432 (2016).
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17. R. Guo, E. Rusak, **I. Staude**, J. Dominguez, M. Decker, C. Rockstuhl, I. Brener, D. N. Neshev, and Yu. S. Kivshar, "Multipolar coupling in hybrid metal-dielectric metasurfaces", *ACS Photonics* **3**, 349–353 (2016).
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18. H. Chen, J. Yang, E. Rusak, J. Straubel, R. Guo, Y. W. Myint, J. Pei, M. Decker, **I. Staude**, C. Rockstuhl, Y. Lu, Yu. S. Kivshar, and D. Neshev "Manipulation of photoluminescence of two-dimensional $MoSe_2$ by gold nanoantennas", *Sci. Rep.* **6**, 22296 (2016).
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19. M. R. Shcherbakov, P. P. Vabishchevich, A. S. Shorokhov, K. E. Chong, D.-Y. Choi, **I. Staude**, A. E. Miroshnichenko, D. N. Neshev, A. A. Fedyanin, and Yu. S. Kivshar, "Ultrafast All-Optical Switching with Magnetic Resonances in Nonlinear Dielectric Nanostructures", *Nano Lett*. **15**, 6985–6990 (2015).
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20. K. E. Chong, **I. Staude**, A. James, J. Dominguez, S. Liu, S. Campione, G. Subramania, T. S. Luk, M. Decker, D. N. Neshev, I. Brener, Yu. Kivshar, "Polarization-Independent Silicon Metadevices for Efficient Optical Wavefront Control" *Nano Lett.* **15**, 5369–5374 (2015).
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23. R. Hussain, S. S. Kruk, C. E. Bonner, M. A. Noginov, **I. Staude**, Yu. S. Kivshar, N. Noginova, D. N. Neshev, "Enhancing Eu^{3+} magnetic dipole emission by resonant plasmonic nanostructures", *Opt. Lett.* **40**, 1659–1662 (2015).
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24. J. Sautter, **I. Staude**, M. Decker, E. Rusak, D. N. Neshev, I. Brener and Yu. S. Kivshar, "Active tuning of all-dielectric metasurfaces", *ACS Nano* **9**, 4308–4315 (2015).
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27. E. Rusak, **I. Staude**, M. Decker, J. Sautter, A. E. Miroshnichenko, D. A. Powell, D. N. Neshev, and Yu. S. Kivshar, "Hybrid Nanoantennas for Directional Emission Enhancement", *Appl. Phys. Lett.* **105**, 221109 (2014).
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28. M. R. Shcherbakov, D. N. Neshev, B. Hopkins, A. S. Shorokhov, **I. Staude**, E. V. Melik-Gaykazyan, M. Decker, A. A. Ezhov, A. E. Miroshnichenko, Igal Brener, A. A. Fedyanin, and Yu. S. Kivshar, "Enhanced third-harmonic generation in silicon nanoparticles driven by magnetic response", *Nano Lett.* **14***,* 6488−6492 (2014).
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29. S. S. Kruk, M. Decker, **I. Staude**, S. Schlecht, M. Greppmair, D. N. Neshev, and Yu. S. Kivshar, "Spin-Polarized Photon Emission by Resonant Multipolar Nanoantennas ", *ACS Photonics* **1***,* 1218–1223 (2014).
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33. K. E. Chong, B. Hopkins, **I. Staude**, A. E. Miroshnichenko, J. Dominguez, M. Decker, D. N. Neshev, I. Brener, and Yu. S. Kivshar, "Observation of Fano Resonances in All-Dielectric Nanoparticle Oligomers", *Small* **10**, 1985–1990 (2014).
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37. K. Lau, **I. Staude**, Y. Liu, H. Chen, Z. Li, Z. Xu, and D. N. Neshev, "Ferroelectric Domain Engineered Photochemical Deposition for Area-Selectable Broadband Enhancement of Quantum Dot Photoluminescence", *Adv. Opt. Mater.* **1**, 720–723 (2013).
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38. M. Decker, C. Kremers, A. Minovich, **I. Staude**, A. E. Miroshnichenko, H. H. Tan, D. Chigrin, D. N. Neshev, C. Jagadish, and Yuri S. Kivshar, "Electo-optical mode switching by liquid-crystal controlled metasurfaces", *Opt. Express* **21**, 8879−8885 (2013).
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39. **I. Staude**, M. Decker, M. J. Ventura, C. Jagadish, D. N. Neshev, M. Gu, and Yu. Kivshar, "Hybrid High-Resolution Three-Dimensional Nanofabrication for Metamaterials and Nanoplasmonics", *Adv. Mater.* **25**, 1260−1264 (2013).
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Conference contributions:

Conference presentations (only own presentations):

49. T. Pertsch and **I. Staude**, "Hybrid photonic nanomaterials for nanoscale nonlinear interactions", ***invited talk***, SPIE Photonics West Conference, San Francisco, USA, January 2018.
50. **I. Staude**, "Tailoring spontaneous emission with semiconductor metasurfaces", ***invited talk***, SPIE Photonics West Conference, San Francisco, USA, January 2018.
51. **I. Staude**, "Controlling light fields with metamaterial inspired silicon nanostructures", ***invited talk***, SPIE Photonics West Conference, San Francisco, USA, January 2018.
52. **I. Staude**, "Mie-Resonant Semiconductor Metasurfaces: Active Tuning, Light Emission, and Nonlinear Effects", ***invited talk***, 2017 MRS Fall Meeting, Boston, USA, November 2017.
53. **I. Staude**, "Controlling Light with Mie-Resonant Semiconductor Metasurfaces", ***plenary talk***, 21st German Conference of Women in Physics, Ilmenau, Germany, October 2017.
54. **I. Staude**, "Mie-Resonant Dielectric Metasurfaces: Wavefront Control and Beyond", ***invited lecture***, IMPRS Physics of Light Annual Meeting 2017, Gößweinstein 2017.

55. **I. Staude**, "Active, tunable and nonlinear Mie-resonant semiconductor metasurfaces", ***invited talk***, Metanano Conference, Vladivostok, Russia, September 2017.
56. **I. Staude**, "Active and tunable Mie-resonant semiconductor metasurfaces", ***invited talk***, SPIE Optics + Photonics, San Diego, USA, August 2017.
57. **I. Staude**, "Mie-Resonant Semiconductor Metasurfaces", ***invited talk***, Complex Nanophotonics Science Camp, Berkshire, UK, July 2017.
58. **I. Staude**, "Mie-Resonant Semiconductor Metasurfaces: Wavefront Control and Beyond", ***keynote talk***, ICCES Conference, Funchal, Portugal, June 2017.
59. **I. Staude**, "Spatial and Spectral Tailoring of Light Emission with Semiconductor Nanoantenna Arrays", ***invited talk***, ICMAT Conference Singapore, June 2017.
60. **I. Staude**, "Dielectric metasurfaces - fundamentals and applications", ***invited lecture***, Doctoral Summer School on Nanophotonics and Metamaterials, ITMO University, St. Petersburg, Russia, May 2017.
61. **I. Staude**, "All Dielectric Metasurfaces – Part I & II", ***invited lecture***, EUROMETA – 33rd Doctoral School on Metamaterials, University of Bordeaux, France, April 2017.
62. **I. Staude**, "Controlling Light Fields with Mie-Resonant Dielectric Metasurfaces", ***Hertha-Sponer-Prize talk (plenary)***, DPG Spring Meeting, Dresden, March 2017.
63. **I. Staude**, A. Vaskin, T. Bucher, K. E. Chong, M. Zilk, S. Liu, A. George, D.-Y. Choi, D. Neshev, Yu. Kivshar, I. Brener, A. Turchanin and T. Pertsch, "Tailoring spontaneous emission with semiconductor metasurfaces", ***invited talk***, Annual CUDOS Workshop 2017, Wyong, Australia, February 2017.
64. **I. Staude**, R. Guo, E. Rusak, J. Dominguez, M. Decker, C. Rockstuhl, I. Brener, D. N. Neshev, T. Pertsch, and Yu. S. Kivshar, "Hybrid metal-dielectric nanostructures for advanced light-field manipulation", ***invited talk***, SPIE Photonics West Conference, San Francisco, USA, January 2017.
65. **I.Staude**, "Functional photonic nanostructures based on Mie-resonant semiconductor nanoparticles", ***invited talk***, SPIE Photonics West Conference, San Francisco, USA, January 2017.
66. **I. Staude**, "Mie-resonant dielectric metasurfaces and nanoantennas", ***invited talk***, ICONO-2016, Minsk, Belarus, September 2016.
67. **I. Staude**, K. E. Chong, L. Wang, A. R. James, J. Dominguez, S. Liu, G. S. Subramania, M. Decker, D. N. Neshev, I. Brener, and Yu. S. Kivshar, "Light-field control with silicon Huygens' metasurfaces", ***invited talk***, EOSAM 2016, Berlin, Germany, September 2016.
68. **I. Staude**, "„Tailoring directional scattering with hybrid metal-dielectric nanostructures", CUDOS-ACP-workshop, Schloss Oppburg, Germany, September 2016.
69. **I. Staude**, K. E. Chong, M. Decker, D. N. Neshev, I. Brener, Yu. S. Kivshar "Resonant Dielectric Huygens' metasurfaces", ***invited talk***, CIMTEC 2016, Perugia, Italy, June 2016.
70. **I. Staude**, Manuel Decker, Katie E. Chong, Dragomir N. Neshev, Igal Brener, Yuri S. Kivshar "Functional photonic nanostructures based on resonant dielectric nanoparticles", ***invited talk***, SPIE Micro+Nano Materials, Devices, and Systems, Sydney, Australia, December 2015.
71. J. Sautter, **I. Staude**, M. Decker, E. Rusak, D. N. Neshev, I. Brener and Yu. S. Kivshar "Active Tuning of Silicon Nanodisk Metasurfaces", ***invited talk***, Progress in Electromagnetics Research Symposium (PIERS) 2015, Prague, Czech Republic, July 2015.
72. **I. Staude** and Yu. S. Kivshar "All-dielectric Nanophotonics: Magnetic Response, Fano Resonances, Functional Metasurfaces, and Nonlinear Effects", ***invited talk***, CLEO/Europe-EQEC 2015, Munich, Germany, June 2015.

73. E. Rusak, R.Guo, **I. Staude**, M. Decker, J. Sautter, A. Miroshnichenko, D. Powell, D. Neshev, Yu. Kivshar "Metal-Dielectric Nanoantennas for Enhancement of Directional Emission", contributed talk, CLEO/Europe-EQEC 2015, Munich, Germany, June 2015.
74. J. Sautter, **I. Staude**, M. Decker, E. Rusak, D. N. Neshev, I. Brener and Yu. S. Kivshar "Active Tuning of All-Dielectric Metasurfaces with Liquid Crystals", CLEO/Europe-EQEC 2015, Munich, Germany, June 2015.
75. E. Rusak, R.Guo, **I. Staude**, M. Decker, J. Sautter, A. Miroshnichenko, D. Powell, D. Neshev, Yu. Kivshar "Hybrid Metal-Dielectric Nanoantennas", contributed talk, Australian Institute of Physics Congress 2014, Canberra, Australia, December 2014.
76. D. N. Neshev, **I. Staude**, N. T. Fofang, S. Liu, J. Dominguez, M. Decker, A. E. Miroshnichenko, V. V. Khardikov, T. S. Luk, I. Brener, and Yu. S. Kivshar "Manipulation of Quantum Dots Emission Spectra by All-dielectric Metasurfaces", contributed talk, Metamaterials'2014, Copenhagen, Denmark, August 2014.
77. D. N. Neshev, **I. Staude**, M. R. Shcherbakov, A. E. Miroshnichenko, M. Decker, A. A. Fedyanin, I. Brener, and Yu. S. Kivshar "Linear and nonlinear properties of all-dielectric metamaterials", ***invited talk***, SPIE Optics+Photonics 2014, San Diego, USA, August 2014.
78. **I. Staude**, V. K. A. Sreenivasan, I. Shishkin, K. Samusev, M. Decker, D. N. Neshev, A. Zvyagin, and Yu. S. Kivshar "Positioning of single quantum dots on nanoscale areas of metal-free substrates", contributed talk, SPIE Optics+Photonics 2014, San Diego, USA, August 2014. ***Video recording available*** @ Proc. SPIE 9162, Active Photonic Materials VI, 91620E (September 12, 2014); doi:10.1117/12.2061436
79. **I. Staude**, M. Decker, M. Falkner, J. Dominguez, D. N. Neshev, I. Brener, T. Pertsch, Yu. S. Kivshar "High-transmittance all-dielectric Huygens' metasurfaces", contributed talk, SPIE Optics+Photonics 2014, San Diego, USA, August 2014. ***Video recording available*** @ Proc. SPIE 9160, Metamaterials: Fundamentals and Applications 2014, 91600A (September 12, 2014); doi:10.1117/12.2061444.
80. **I. Staude**, A. E. Miroshnichenko, M. Decker, N. T. Fofang, S. Liu, E. Gonzales, J. Dominguez, T. S. Luk, D. N. Neshev, I. Brener, and Yu. S. Kivshar "Silicon-Nanodisks for Resonant Directional Scattering and Light Extraction", ***invited talk***, Meta 2014 Conference, Singapore, May 2014.
81. **I. Staude**, V. K. A. Sreenivasan, I. Shishkin, K. Samusev, M. Decker, D. N. Neshev, A. Zvyagin, and Yu. S. Kivshar, "Selective binding of quantum dots for all-dielectric nanophotonics", poster, Meta 2014 Conference, Singapore, May 2014.
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Seminar/Colloquium Talks:

136. **I. Staude**, "Mie-resonant semiconductor metasurfaces beyond wavefront control", seminar talk, Heriot-Watt-University, Edinburgh, UK, November 2017.
137. **I. Staude**, "Mie-resonant semiconductor nanostructures as a platform for functional nanophotonics", seminar talk, Leibniz Institute for Analytical Sciences (ISAS), Berlin, Germany, August 2017.
138. **I. Staude**, "Spatial and spectral tailoring of spontaneous emission with semiconductor metasurfaces", seminar talk, Westfälische Wilhelms-Universität Münster, Germany, March 2017.
139. **I. Staude**, "Mie-resonant dielectric nanostructures as a platform for functional nanophotonics", graduate lecture, University of Paderborn, Germany, December 2016.
140. **I. Staude**, "Tailoring Light Fields with Silicon Huygens' Metasurfaces", habilitation introduction talk, Friedrich-Schiller-University Jena, Germany, June 2016.
141. **I. Staude**, "Tailoring Light Fields with All-Dielectric Huygens' Metasurfaces", colloquium talk, FOM Institute AMOLF, Amsterdam, The Netherlands, June 2016.
142. **I. Staude**, "Tailoring Light Fields with Silicon Huygens' Metasurfaces", seminar talk, Sandia National Laboratories, Albuquerque, New Mexico, USA, May 2016.
143. **I. Staude**, "Tailoring Light Fields with Dielectric Huygens' Metasurfaces", colloquium talk, training centre in metamaterials, University of Exeter, UK, March 2016.
144. **I. Staude**, "Wavefront Control with Dielectric Huygens' Metasurfaces", colloquium talk, Technical University of Kaiserslautern, Germany, January 2016.
145. **I. Staude**, "Tailoring Light Fields with Resonant Dielectric Nanosurfaces", colloquium talk, University of Bonn, Germany, November 2015.
146. **I. Staude**, "Resonant Dielectric Nanostructures: A Low-Loss Platform for Functional Nanophotonics", seminar talk, Humboldt-Universität zu Berlin, Germany, August 2015.
147. **I. Staude**, "Optical nanoantennas enabled by multipolar interference", oral presentation, Day of New Trends in Photonics, Friedrich-Schiller-University, Jena, Germany, December 2014.
148. **I. Staude**, "High-Permittivity All-Dielectric Nanoparticles: A Novel Low-Loss Platform for Nanophotonics", seminar talk, Max Planck Institute for the Science of Light, Erlangen, Germany, December 2014.
149. **I. Staude**, "Nanoantennas and photonic metamaterials: Controlling light at the nanoscale", oral presentation, University of Malaya (UM) – Australian National University (ANU) Joint Seminar on Exploring Innovative and Functionalized Materials, University of Malaya, Kuala Lumpur, Malaysia, November 2014.
150. **I. Staude**, "Controlling light at the nanoscale with all-dielectric and plasmonic nanostructures", oral presentation, LIA ALPhFA inaugural workshop, The University of Sydney, Australia, November 2014.
151. **I. Staude**, "Optical nanoantennas enabled by multipolar interference", oral presentation, CUDOS meets ACP Workshop on Optical Materials, Photonic Devices & Nonlinear Optics, Friedrich-Schiller-University, Jena, Germany, September 2014.

152. **I. Staude**, “Linear and nonlinear properties of silicon metasurfaces”, seminar talk, NANOseminar, Friedrich-Schiller-University, Jena, Germany, September 2014.
153. **I. Staude** & M. Decker, “Silicon nanodisks: a novel platform for magnetic-light nanophotonics”, seminar talk, University of Technology, Sydney, Australia, June 2014.
154. **I. Staude**, “Silicon Nanodisks for Magnetic-Light Nanophotonics”, seminar talk, Zhang Lab, University of California, Berkeley, USA, January 2014.
155. **I. Staude**, “Light manipulation by advanced optical nanoantennas”, seminar talk, Data Storage Institute, Agency for Science, Technology, and Research (A*STAR), Singapore, August 2013.
156. **I. Staude**, “Light manipulation by electric and magnetic modes in subwavelength optical nanoresonators”, seminar talk, Institute for Applied Physics, Karlsruhe Institute of Technology, Karlsruhe, Germany, July 2013.
157. **I. Staude**, “Silicon-Disk All-Dielectric Nanoantennas”, seminar talk, NANOseminar, Friedrich-Schiller-University, Jena, Germany, July 2013.
158. **I. Staude**, “Manipulation of light by advanced optical nanoantennas”, seminar talk, Department of Physics and Center for Materials Research, Norfolk State University, Norfolk, USA, February 2013.
159. **I. Staude**, “Functional Elements in Three-Dimensional Photonic Bandgap Materials”, seminar talk, Swinburne Optics and Laser Laboratories (SOLL), Swinburne University of Technology, Melbourne, Australia, September 2011.
160. **I. Staude**, “Functional Elements in Three-Dimensional Photonic Bandgap Materials”, seminar talk, MQ Photonics Seminar, MQ Photonics Research Centre, Macquarie University, Sydney, Australia, April 2011.
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163. **I. Staude** & C. Rockstuhl "Surface phonon-polaritons: To scatter or not to scatter", *Nat. Mater.* **15**, 821-822 (2016).
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