

Brenden Magill
Collegiate Assistant Professor of Nanoscience

Work Address

Virginia Tech University
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Education:

Florida State University, Tallahassee, FL

Ph.D. Physics, September 2013

M.S. Physics, 2005

San Diego State University, San Diego, CA

B.S. Physics, 2003

Appointments:

Virginia Tech University, Blacksburg, VA

Postdoctoral researcher, 2013-2016

Research scientist, 2016-2018

Collegiate Assistant Professor of Nanoscience, 2018-present

Current Research Interests:

- *Functional nanocomposites for biological sensing*
- *Neutrino detection using color center formation in monocrystalline substrates*
- *Dynamics of charge carriers and light emission in organic halide perovskites*
- *Coherent phonons in semiconductors and multi-ferroic materials*
- *Time-resolved spectroscopy of the narrow gap semiconductors*
- *Band structure of ferromagnetic semiconductors*
- *Magnetic circular dichroism of ferromagnetic semiconductors at high magnetic fields*
- *Time-resolved spectroscopy of multifunctional materials systems*
- *Upconverting nanoparticles in triblock copolymers*
- *Plasmonically driven nano assembly*
- *Two-photon patterning with micron resolution*
- *Activation of ligands detected using Kelvin probe atomic force microscopy*
- *Multi-photon-induced luminescence*
- *Nanosphere lithography through convective self-assembly*

Past Research Activities:

Florida State University and the National High Magnetic Field Lab, Tallahassee, FL

Ph.D. 2003-2013

- *Low-temperature microwave spectroscopy*
- *Magneto-transport in semiconductor systems*
- *The reentrant quantum Hall effect in 'wide' quantum well 2D electron systems.*

- Experience with microwave transmission measurements at milli-Kelvin temperatures, 0.025 K, and high magnetic fields, up to 18 T.
- *Pinning mode resonances in 2D electron systems with alloy disorder.*
- *Magnetically bound charge density excitation in 2D electron systems.*
- Experience with magneto-optical Faraday measurements used to characterize ferromagnets for this experiment.
- *Microwave and DC characterization of epitaxial graphene*
- Experience with the fabrication of epitaxial graphene microwave devices.

Research Activities at Virginia Tech, Blacksburg, VA:

- Time-resolved optical spectroscopy (sub-picosecond resolution)
- Experience with ultra-short pulse lasers; oscillator based (80MHz repetition rate) and amplified (1KHz repetition rate) from near UV to MIR
- Optical characterization: spectroscopy, ellipsometry, magnetic circular dichroism (UV to MIR),
- Confocal microscopy (Bruker LSM 510)
- Created and instructs a lab module on scanning electron microscopy (SEM)
- Experience using and instructing on the use of Dynamic Light Scattering (Malvern Zetasizer), Thermo-Gravimetric Analysis, UV-VIS, Fluorescence spectroscopy
- Atomic force microscopy including Kelvin probe measurements
- Nanosphere lithography
- Low-temperature (< 0.03 K) microwave spectroscopy
- Experienced with high magnetic field measurements (up to 35 T).
- Modified a commercial He3 system, 0.3 K base temperature, for wide spectrum microwave, 100 kHz to 20 GHz, measurements.
- Prepared a cryostat and built a cryostat insert for a 8 T superconducting magnet.
- Experience with photolithography for sample preparation.
- Maintained a standalone clean room
- Set up and maintained both a thermal and an electron beam evaporator.
- Acted as an internal training resource and trained 9 people on photolithography, 7 people on thermal evaporation, and 7 people on electron beam evaporation.
- Labview integration of experimental hardware
- Cyclotron resonance measurements at high magnetic fields (up to 100 T)

Teaching Experience:

Virginia Tech, Department of Integrated Science, Nanoscience Division, Blacksburg, VA

Nanoscience Synthesis and Characterization Lab I & II	2016-present
Guest lecturer for Nanoscience and Characterization	2016
Thermal evaporation	
Intro to nanomaterials	
Nanoscience Research Seminar	2016-present
Nanoscience Research Rotations	2017-2018
Foundations of Physics II (2306)	2018

Quantum Physics of Nanostructures	2019-present
Quantum Physics for Nanomedicine	2019-present
Nanoscience Synthesis and Characterization II Lecture	2020-present

At Florida State University, Department of Physics, Tallahassee, FL:

Teaching Assistant:

General Physics A and B laboratory,	Sep 2004 - May 2006
General Physics A Studio (SCALE-UP),	Sep 2009 - Dec 2009

Notable Collaborations:

Dr. Steve McGill - National High Magnetic Field Laboratory
 Prof. Hiro Munekata – Tokyo Tech University
 Prof. Chris Stanton – University of Florida
 Prof. Shashank Priya, Currently at the University of Minnesota
 Prof. Hans Robinson, Virginia Tech
 Prof. Tim Long, Currently at Arizona State
 Prof. Mantu Hudait, Virginia Tech

Outreach Activities:

Nanoscience Professional Development Workshop
 Organizer, content creator, and educator 2019-2023
 VT Sun Nanocamp
 Presenter 2019, 2020, and 2024
 Nanoscience Professional Development Workshop
 Organizer, presenter, and content creator 2019-2023
 Outreach to local high schools
 Class Presentations to Blacksburg High School 2021
 Black College Institute at Virginia Tech
 “This is Nanoscience” presentation 2019

Undergraduate Advising and Co-Advising:

Yannick Pleimling (Goldwater Scholar), Alex Shenenberg and Ruoshui Ma (Hamlett Supported), Joseph Spenser (Currently at Naval Research Laboratory)

Graduate Students Co-Advising:

Nicholas Smith, Rathsara Hearsh, and Michael Meeker

Publications:

1. Rathsara R. H. H. Mudiyansele*, **Brenden A. Magill***, Yannick Pleimling, Nicholas Smith, Mantu Hudait, Christopher J. Stanton, and Giti A. Khodaparast, *Time Resolved Carrier Dynamics in Ge based heterostructures* in preparation (2022)

2. Sengunthar Karthikeyan, Rutwik Joshi, Jing Zhao, Robert J. Bodnar, **Brenden A. Magill**, Yannick Pleimling, Giti A. Khodaparast, and Mantu K. Hudait, *Lattice matched GeSn/InAlAs heterostructure: Role of Sn in energy band alignment and atomic layer diffusion*, J. Mat. Phys. C Accepted June (2023)
3. Sunil K. Thapa, Rath Sara R. H. H. Mudiyansele, Thalya Paleologu, Sukgeun Choi, Zhuo Yang, Y. Kohama, Y. H. Matsuda, Joseph Spencer, **Brenden A. Magill**, Chris Palmstrøm, Christopher J. Stanton, Giti A. Khodaparast, Probing band structure, g-factor, and spin relaxation in n-type InAsP alloys, submitted Phys. Rev. B, April (2023).
4. Safiabadi Tali S.A., Mudiyansele Rath Sara R. H. H., Qian Y., Smith N.W.G., Zhao Y., Morral A., Song J, Nie M., **Magill B. A.**, Khodaparast G. A., Zhou W., *Dual-modal nanoplasmonic light upconversion through anti-Stokes photoluminescence and second-harmonic generation from broadband multiresonant metal nanocavities*, accepted ACS NANO (2023). <https://doi.org/10.1021/acsnano.3c00559>
5. Nicholas Smith, Yannick Pleimling, **Brenden A. Magill**, Rath Sara R. H. H. Mudiyansele, Alex Shenenberger, Shunta Ogawa, Nozomi Nishizawa, Hiro Munekata, Giti A. Khodaparast, *Probe and Control of Photo-excited Magnetization Precession in Co/Pd Multilayer Films at Low Laser Fluence Regime*, J. App. Phys. **132**, 243902 (2022). <https://doi.org/10.1063/5.0131045>
6. **Brenden A. Magill**, Kai Wang, Stephen McGill, Christopher J. Stanton, Shashank Priya, and Giti A. Khodaparast, "Probe of the excitonic transitions and lifetimes in quasi-2D organic-inorganic halide perovskites", AIP Advances 12, 015114 (2022). DOI:10.1063/5.0072566
7. Rath Sara R. H. H. Mudiyansele, Nicholas Smith, **Brenden A. Magill**, Min Gyu Kang, Shashank Priya, and Giti A. Khodaparast, *Second Harmonic Generation in Multiferroic BaTiO₃-BiFeO₃ Film and Nanorod Arrays Grown on Si Substrate*, Proc. SPIE 12002, Oxide-based Materials and Devices XIII, 120020L (2022). DOI:10.1117/12.2605751
8. Yang Cao, Brandon Dzuba, **Brenden A. Magill**, Alexander Senichev, Trang Nguyen, R. E. Diaz, Michael J. Manfra, Stephen McGill, Carlos Garcia, Giti A. Khodaparast, Oana Malis, *Photoluminescence study of carrier localization and recombination in nearly strain-balanced non-polar InGaN/AlGaN quantum wells*, Phys. Status Solidi B, 259: 2100569 (2022). DOI: 10.1002/pssb.202100569
9. R. R. H. H. Mudiyansele, J. Burton, **B. A. Magill**, K. McMillian, G. Gagliano, A. Morrel, M.-G. Kang, H.-B. Kang, S. Priya, C. J. Stanton, and G. A. Khodaparast, *Second-harmonic Generation Measurements and Ultrafast Time Resolved Spectroscopy on Pb_{0.52}Zr_{0.48}TiO₃ Nanorod Arrays*, Journal of Physics: Photonics 3 (3), 034012 (2021). DOI:10.1021/jacs.0c13069
10. T. Ye, K. Wang, Y. Hou, D. Yang, N. Smith, **B. A. Magill**, J. Yoon, R. R. H. H. Mudiyansele, G. A. Khodaparast, K. Wang, and S. Priya, *Ambient-air-stable lead-free CsSnI₃ solar cells with >7.5% efficiency*, J. Am. Chem. Soc. 143, 11, 4319 (2021). DOI:10.1021/jacs.0c13069

11. J. Yuan, M. Hatefipour, **B. A. Magill**, W. Mayer, M. C. Dartiailh, K. Sardashti, K. S. Wickramasinghe, G. A. Khodaparast, Y. H. Matsuda, Y. Kohama, Z. Yang, S. Thapa, C. J. Stanton, and J. Shabani, *Experimental measurements of effective mass in near surface InAs quantum wells*, Phys. Rev. B **101**, 205310 (2020). DOI:10.1103/PhysRevB.101.205310
12. Y. Cao, B. Dzuba, **B. A. Magill**, A. Senichev, T. Nguyen, R. E. Diaz, M. J. Manfra, S. McGill, Carlos, Garcia, Giti A., Khodaparast, and Oana, Malis. *Photoluminescence study of non-polar m-plane InGaN and nearly strain-balanced InGaN/AlGaN superlattices*. J. of App. Phys. **127** (18), 185702 (2020). DOI:10.1063/5.0003740
13. **B. A. Magill**, G. A. Khodaparast, G. D. Sanders, C. J. Stanton, J. Holleman, S. McGill, and H. Munekata, *Magnetic-field-enhanced detection of coherent phonons in ferromagnetic GaMnAs/GaAs film*, Phys. Rev. B **102**, 045306 (2020). DOI:10.1103/PhysRevB.102.045306
14. J. S. Metzman, A. U. Khan, **B. A. Magill**, G. A. Khodaparast, J. R. Heflin, and G. Liu, *Critical Role of Polystyrene Layer on Plasmonic Silver Nanoplates in Organic Photovoltaics*, ACS Applied Energy Materials **2** (4), 2475-2485 (2019). DOI: 10.1021/acsaem.8b01860
15. R. R. H. H. Mudiyansele, **B. A. Magill**, J. Burton, M. Miller, J. Spencer, K. McMillan, G. A. Khodaparast, Han-Byul Kang, Min Gyu Kang, Deepam Maurya, Shashank Priya, J. Holleman, S. Magill, C. J. Stanton, *Coherent acoustic phonons and ultrafast carrier dynamics in hetero-epitaxial BaTiO₃-BiFeO₃ films and nanorods*, J. Mater. Chem. C, **7**, 14212-14222 (2019). DOI:10.1039/C9TC01584A
16. **B. A. Magill**, X. Guo, C. Peck, R. Reyes, E. See, W. L. Santos, H. Robinson, *Multi-photon patterning of photoactive o-nitrobenzyl ligands bound to gold surfaces*, Photochem Photobiol Sci. Jan 1;18(1):30-44. (2019) DOI: 10.1039/C8PP00346G **Cover Article**
17. W. Vincent, **B. A. Magill**, M. Lumb, H. Esmailpour, M Meeker, R. R. H. H. Mudiyansele, A. Messenger, S. Vijayaragunathan, T. Mishima, M. Santos, I. Vurgaftman, G. A. Khodaparast, I. Sellers "Valence band states in an InAs/AlAsSb multi-quantum well hot carrier absorber", Semicond. Sci. Technol. **34** 025005 (2019). DOI:10.1088/1361-6641/aae4c3
18. B. Maden, Han-Byul Kang, Min Gyu Kang, Deepam Maurya, **B. A. Magill**, Marcos Alves, J. E. Wegrowe, H. J. Drouhin, Shashank Priya, Giti A. Khodaparast, *Room Temperature Ferromagnetic Resonance in Epitaxial Grown (1-x)BaTiO₃-xBiFeO₃(x = 0.725) (BTO-BFO) on LSMO* AIP Advances **8**, 105034 (2018). DOI:10.1063/1.5037165 **Editor's Pick**
19. C. Wu, H. Li, Y. Yan, B. Chi, K. Felice, R. B. Moore, **B. A. Magill**, R. R. H. H. Mudiyansele, G. A. Khodaparast, M. Sanghadasa, S. Priya, *Highly-Stable Organo-Lead Halide Perovskites Synthesized Through Green Self-Assembly Process*, Solar RRL **2** (6), 1800052 (2018). DOI: 10.1002/solr.2017700174 **Cover Article**

20. J.-H. Park, R. McClintock, D. Pavlidis, F. H. Teherani, D. J. Rogers, **B. A. Magill**, G. A. Khodaparast, and M. Razeghi, *A review of the growth, doping, and applications of β -Ga₂O₃ thin films*, Oxide-based Materials and Devices IX, 10533 (2018). DOI:10.1117/12.2302471
21. **B. A. Magill**, K-D Park, Y. Zhou, A. Chopra, Maurya, S. Priya, M. B. Raschke, A. Belyanin, C. J. Stanton, G. A. Khodaparast *Ultrafast Anisotropic Optical Response and Coherent Acoustic Phonon Generation in Polycrystalline BaTiO₃-BiFeO₃*, Journal of Energy Harvesting and Systems **3**(3): 229–236 (2016). DOI: 10.1515/ehs-2015-0028
22. M. A. Meeker, **B. A. Magill**, G. A. Khodaparast, D. Saha, C. J. Stanton, S. McGill and B. W. Wessels, *High-field magnetic circular dichroism in ferromagnetic InMnSb and InMnAs: Spin-orbit-split hole bands and g factors*, Physical Review B **92** (12), 125203 (2015). DOI: 10.1103/PhysRevB.92.125203
23. D. L. Inglefield, T. R. Merritt, **B. A. Magill**, T. E. Long and G. A. Khodaparast, *Upconverting nanocomposites dispersed in urea-containing acrylics*, Journal of Materials Chemistry C **3** (21), 5556-5565 (2015). DOI: 10.1039/C5TC00992H
24. **Invited Paper: B. A. Magill**, M. Bishop, S. A. McGill, Y. Zhou, A. Chopra, H.-C. Song, C. J. Stanton, S. Priya, G. A. Khodaparast *Ultrafast Magneto-Optical Spectroscopy of BiFeO₃-BaTiO₃ Based Structures*, Proc. Of SPIE, Vol. 9551, 95510T (2015). DOI: 10.1117/12.2185964
25. T. R. Merritt, M. A. Meeker, **B. A. Magill**, G. A. Khodaparast, S. McGill, J. G. Tischler, S. G. Choi and C. J. Palmstrøm, *Photoluminescence lineshape and dynamics of localized excitonic transitions in InAsP epitaxial layers*, Journal of Applied Physics **115** (19), 193503 (2014). DOI: 10.1063/1.4876121
26. **B. A. Magill**, M. A. Meeker, T. R. Merritt, G. A. Khodaparast, S. McGill and C. J. Palmstrøm, *Time Resolved Magneto-Optical Studies of InAsP Ternary alloys*, presented at the SPIE, San Diego, 2014. DOI: 10.1117/12.2058867
27. C.-Y. Jao, **B. A. Magill**, K. Chen, E. M. See and H. D. Robinson, *Enhanced Multiphoton-Induced Luminescence in Silver Nanoparticles Fabricated with Nanosphere Lithography*, Plasmonics **10** (1), 87-98 (2014). DOI: 10.1007/s11468-014-9781-5
28. A. T. Hatke, Y. Liu, **B. A. Magill**, B. H. Moon, L. W. Engel, M. Shayegan, L. N. Pfeiffer, K. W. West and K. W. Baldwin, *Microwave spectroscopic observation of distinct electron solid phases in wide quantum wells*, Nat Commun **5** (2014). DOI: 10.1038/ncomms5154
29. M. A. Meeker, **B. A. Magill**, T. R. Merritt, M. Bhowmick, K. McCutcheon, G. A. Khodaparast, J. G. Tischler, S. McGill, S. G. Choi and C. J. Palmstrøm, *Dynamics of photoexcited carriers and spins in InAsP ternary alloys*, Applied Physics Letters **102** (22), 222102 (2013). DOI: 10.1063/1.4808346

30. R. R. Urbano, E. M. Bittar, M. A. Pires, L. M. Ferreira, L. Bufaiçal, C. Rettori, P. G. Pagliuso, **B. Magill**, S. B. Oseroff, J. D. Thompson and J. L. Sarrao, *Multiband effects in the electron spin resonance of Gd^{3+} in the intermediate-valence compound $YbAl_3$ and its reference compound $LuAl_3$* , Physical Review B **75** (4), 045107 (2007). DOI: 10.1103/PhysRevB.75.045107

Invited Lectures and Talks:

1. **Brenden A. Magill**, Nicholas W. G. Smith, Min Gyu Kang, Jade Holleman, Stephen McGill, Yannick Pleimling, Rathara R. H. H. Mudiyansele, Christopher J. Stanton, Shashank Priya, and Giti A. Khodaparast, "Time-Resolved Spectroscopy of Multifunctional Materials" Southeastern Session of the American Physical Society, Oxford MS, November 3-5 (2022).
2. **Brenden A. Magill**, Nicholas W. G. Smith, Min Gyu Kang, Han Byul Kang, Joseph A. Spencer, Kiara McMillan, Jade Holleman, Kai Yang, Stephen McGill, Yannick Pleimling, Rathara R. H. H. Mudiyansele, S. Thrapa, G. D. Sanders, Hiro Munekata, Christopher J. Stanton, Shashank Priya, and Giti A. Khodaparast, "Time-Resolved Spectroscopy of Multifunctional Materials in collaboration with the NHMFL" National High Magnetic Field Lab-FSU-FAMU, Tallahassee FL, July 29th (2022).
3. **Brenden A. Magill**, Giti Khodaparast, Kai Wang, Tao Ye, Carlos G. Garcia, Stephen A. McGill, and Shashank Priya "Photoluminescence and Time Resolved Photoluminescence of Organic-inorganic Halide Perovskites", SPIE Optics + Photonics, San Diego, CA, August 1-5 (2021)
4. **Brenden A. Magill**, Rathara R. Herath Mudiyansele, Joseph A. Spencer, John Burton, Moira Miller, Kiara McMillan, Giti Khodaparast, Min Gyu Kang, Han-Byul Kang, Deepam Maurya, Shashank Priya, Jade Holleman, Stephen A. McGill, and Chris J. Stanton, Coherent Phonons and Magnons in Hetero-Epitaxial BTO-BFO Films and Nano-rod, SPIE Optics + Photonics, San Diego, CA, August 11-15 (2019)
5. **Brenden A. Magill**, G. A. Khodaparast, G. D. Sanders, C. J. Stanton, J. Holleman, S. McGill, C. Wu, H. Munekata, S. Priya. Coherent Phenomena in Multi-functional Materials, Tokyo Tech University, Yokohama, Japan, November 20 (2017).
6. **Brenden A. Magill**, G. A. Khodaparast, S. McGill, H. Munekata, G. D. Sanders, C. J. Stanton, Coherent Phenomena in Ferromagnetic GaMnAs films, SPIE Optics + Photonics, San Diego, CA, August 6-10 (2017)
7. **Brenden A. Magill**, M. A. Meeker, G. A. Khodaparast, S. Priya, Y. Zhou, H.-C. Song, Y. Zhou, A. Chopra, S. Priya, K.-D. Park, and M. Raschke, *Progress in ultrafast spectroscopy of $BiFeO_3$ - $BaTiO_3$ Based Structures*, Magneto-Optics Workshop, Winter Park, Colorado, April 11-13 (2015)
8. **Brenden A. Magill**, M. A. Meeker, T. R. Merrit, G. A. Khodaparast, S. McGill and C. J. Palmstrøm, *Time Resolved Magneto-Optical Studies of InAsP Ternary alloys*, SPIE Optics + Photonics, San Diego, CA, August 17-21 (2014)

Contributed Talks:

1. G. A. Khodaparast, **B. A. Magill**, K. Wang, S. McGill, C. J. Stanton, S. Priya, "Time-Resolved Optical Studies in High-Quality Quasi-2D Halide Perovskites" Edison 22, Munster Germany, August 15 (2023)
2. **Brenden A. Magill**, Nicholas W. G. Smith, Min Gyu Kang, Jade Holleman, Stephen McGill, Yannick Pleimling, Rathsara R. H. H. Mudiyansele, Christopher J. Stanton, Shashank Priya, and Giti A. Khodaparast, "Probe and Control of Coherent States in Multifunctional Materials" Edison 22, Munster Germany, August 16 (2023)
3. **Brenden A. Magill**, Nicholas W. G. Smith, Min Gyu Kang, Jade Holleman, Stephen McGill, Rathsara R. H. H. Mudiyansele, Christopher J. Stanton, Shashank Priya, and Giti A. Khodaparast, "Multifunctional BaTiO₃-BiFeO₃ structures for coherent control of phononic states" APS March Meeting March 7 (2023)
4. **B. A. Magill**, R. R. H. H. Mudiyansele, Y. Pleimling, N. H. Smith, C. J. Stanton, M. K. Hudait, G. A. Khodaparast *Time Resolved Carrier Dynamics in Ge Based Heterostructures Grown on GaAs Substrate* APS March Meeting, March 15 (2022)
5. **B. A. Magill**, G. A. Khodaparast, S. Thrappa, C. J. Stanton, J. Yuan, M. Hatefipour, W. Mayer, M. C. Dartailh, K. Sardashti, K. S. Wickramasinghe, J. Shabani, Y. H. Matsuda, Z. Yang. and Kohama, *Magneto-Optical and Magneto-Transport Studies of Near Surface InAs Quantum Wells* APS March Meeting, March 16 (2021)
6. B. A. Magill, G. A. Khodaparast, S. Thrappa, C. J. Stanton, J. Yuan, M. Hatefipour, W. Mayer, M. C. Dartailh, K. Sardashti, K. S. Wickramasinghe, J. Shabani, Y. H. Matsuda, Z. Yang. and Kohama, *Magneto-Optical and Magneto-Transport Studies of Near Surface InAs Quantum Wells* APS March Meeting, March 16 (2021)
7. R. R. H. H. Mudiyansele, B. A. Magill, J. Holleman, S. A. McGill, M.-G. Kang, H.-B. Kang, S. Priya, C. J. Stanton, and G. A. Khodaparast, *Ultrafast and non-linear optical studies of multiferritic BaTiO₃-BiFeO₃ and heterostructures based on Pb_{0.52}Zr_{0.48}TiO₃* APS March Meeting, March 16 (2021)
8. Nicholas Smith, Brenden A. Magill, Rathsara R. H. H. Mudiyansele, Hiro Munekata, and Giti A. Khodaparast "Probe and control of photo-excited magnetization precession in Co/Pd multilayer films", APS March Meeting, March 16 (2021)
9. Nicholas Smith, [Brenden A. Magill](#), Rathsara R. H. H. Mudiyansele, Hiro Munekata, and [Giti A. Khodaparast](#) "Probe and control of low-power photo-excited magnetization precession in Co/Pd multilayer films", Proc. SPIE 11805, Spintronics XIV, 1180518 (2 August 2021); <https://doi.org/10.1117/12.2599697>
10. **B. A. Magill**, M. A. Meeker, G. A. Khodaparast, S. Priya, Y. Zhou, H.-C. Song, Y. Zhou, S. Priya, K.-D. Park, and M. Raschke, *Ultrafast Anisotropic Optical Response and Coherent Acoustic Phonon Generation in Polycrystalline and epitaxial BaTiO₃-BiFeO₃*, APS March Meeting, Baltimore, MD, March 14-18 (2016).
11. M. A. Meeker, **B. A. Magill**, G. A. Khodaparast, C. Feeser, D. Saha, C. J. Stanton, S. A. McGill, and B. W. Wessels, *High Field Magnetic Circular Dichroism in Ferromagnetic InMnSb and InMnAs*, APS March Meeting, Baltimore, MD, March 14-18 (2016)

12. G. A. Khodaparast, **B. A. Magill**, M. A. Meeker, A. Chopra, Y. Zhou, H.-C. Song, M. Bishop, S. A. McGill, C. J. Stanton, and S. Priya, *Ultrafast Magneto-Optical Spectroscopy of BiFeO₃-BaTiO₃ Based Structures*, SPIE Optics + Photonics, San Diego, CA, August 9-13 (2015)
13. **B. A. Magill**, M. A. Meeker, G. A. Khodaparast, S. Priya, Y. Zhou, H.-C. Song, M. Bishop, and S. A. McGill, *Ultrafast Optical Spectroscopy of BiFeO₃-BaTiO₃ Based Structures*, APS March Meeting, San Antonio, TX, March 2-6 (2015)
14. M. A. Meeker, **B. A. Magill**, T. R. Merritt, G. A. Khodaparast, J. G. Tischler, S. G. Choi, and C. J. Palmstrøm, *Time Resolved Magneto-Optical Studies of InAsP Alloys*, ICPS, Austin, TX, 2014
15. **B. A. Magill**, Xi Guo, E. M. See, R. L. Reyes, R. M. Davis, W. L. Santos, and H. D. Robinson, *Two-photon activation of photoactive ligands bound to gold surfaces*, APS March Meeting, Denver, CO, March 3-7 (2014)
16. E. M. See, S. M. H. Abtahi, X. Guo, **B. A. Magill**, W. L. Santos, R. M. Davis, and H. D. Robinson, *Plasmon-assisted surface photochemistry and nanoassembly in silver nanoparticles*, APS March Meeting, Denver, CO, March 3-7 (2014)
17. A. T. Hatke, **B. A. Magill**, L. W. Engel, Y. Liu, M. Shayegan, L. N. Pfeiffer, K. W. West and K. W. Baldwin, *Phase transition of pinning modes in wide quantum wells*, EP2DS-20, Wroclaw, Poland July 1-5 (2014)
18. A. T. Hatke, **B. A. Magill**, L. W. Engel, Y. Liu, M. Shayegan, L. N. Pfeiffer, K. W. West and K. W. Baldwin, *Microwave spectroscopic observation of a bilayer inter-solid transition in a wide single quantum well*, HMF21 Panama City Beach, Florida August 3-8 (2014)
19. M. A. Meeker, **B. A. Magill**, M. Bhowmick, G. A. Khodaparast, S. A. McGill, C. Feeser, B. W. Wessels, D. Saha, G. D. Sanders, and C. J. Stanton, *Magneto-Optical and Time Resolved Spectroscopy in Narrow Gap MOVPE Grown Ferromagnetic Semiconductors*, APS March Meeting, Denver, CO, March 3-7 (2014)
20. A. T. Hatke, Y. Liu, **B. A. Magill**, B. H. Moon, L. W. Engel, M. Shayegan, L. N. Pfeiffer, K. W. West and K. W. Baldwin, *Microwave spectroscopic observation of phase transition between competing solids in wide quantum wells*, APS March Meeting, Denver, CO, March 3-7 (2014)
21. C.-Y. Jao, **B. A. Magill**, and H. D. Robinson, *Two photon excitation fluorescence from Ag nanotriangles and nanohexagons*, APS March Meeting, Baltimore, MD, March 18-22 (2013)
22. M. A. Meeker, K. McCutcheon, M. Bhowmick, **B. A. Magill**, G. A. Khodaparast, J. G. Tischler, S. G. Choi, and C. J. Palmstrøm, *Carrier and Spin Dynamics in InAsP Ternary Alloys*, APS March Meeting, Baltimore, MD, March 18-22 (2013)
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