



## **JOURNAL PUBLICATIONS**

1. Nari Jeon,<sup>1</sup> David J. Mandia, Stephen K. Gray, Jonathan J. Foley IV, Alex B. F. Martinson\*, “High-Temperature Selective Emitter Design and Materials: Titanium Aluminum Nitride Alloys for Thermophotovoltaics”, **ACS Applied Materials & Interfaces**, 11, pp. 41347 (2019)
2. Ruben Z. Waldman,<sup>1</sup> Nari Jeon, David J. Mandia, Olle Heinonen, Seth B. Darling, Alex B. F. Martinson\*, “Sequential Infiltration Synthesis of Electronic Materials: Group 13 Oxides via Metal Alkyl Precursors”, **Chemistry of Materials**, 31, pp. 5274 (2019)
3. Arun Mannodi-Kanakkithodi,<sup>1</sup> Ji-Sang Park, **Nari Jeon**, Duyen Cao, David Gosztola, Alex B. F. Martinson and Maria Chan\*, “Extensive Computational Study of Partial Lead Substitution in Methylammonium Lead Bromide”, **Chemistry of Materials**, 31 pp. 3599 (2019)
4. **Nari Jeon**,<sup>1</sup> Ian V. Lightcap, David J. Mandia, and Alex B. F. Martinson\*, “Plasma-Enhanced Atomic Layer Deposition of TiAlN: Compositional and Optoelectronic Tunability”, **ACS Applied Materials & Interfaces**, 11 pp. 11602 (2019)
5. Duyen Cao,<sup>1</sup> Peijun Guo, Arun Mannodi-Kanakkithodi, Gary Wiederrecht, David Gosztola, **Nari Jeon**, Richard Schaller, Mari Chan, Alex B. F. Martinson\*, “Charge Transfer Dynamics of Phase Segregated Halide Perovskites:  $\text{CH}_3\text{NH}_3\text{PbCl}_3$  and  $\text{CH}_3\text{NH}_3\text{PbI}_3$  or  $(\text{C}_4\text{H}_9\text{NH}_3)_2(\text{CH}_3\text{NH}_3)_{n-1}\text{Pb}_n\text{I}_{3n+1}$  Mixtures”, **ACS Applied Materials & Interfaces**, 11 pp. 9583 (2019)
6. **Nari Jeon**,<sup>1</sup> Jonathan HERNANDEZ, Daniel Resenmann, Stephen K. Gray, Alex B. F. Martinson\*, and Jonathan J. Foley IV\*, “Pareto Optimal Spectrally Selective Emitters for Thermophotovoltaics via Weak Absorber Critical Coupling”, **Advanced Energy Materials**, 8 pp. 1801035 (2018)
7. **Nari Jeon**,<sup>1</sup> Daniel Ruhstorfer, Markus Döblinger, Sonja Matich, Bernhard Loitsch, Gregor Koblmüller, and Lincoln Lauhon\*, “Connecting Composition-Driven Faceting with Facet-Driven Composition Modulation in GaAs-AlGaAs Core-Shell Nanowires”, **Nano Letters** 18 pp. 5179 (2018)
8. Christian Pöpsel,<sup>1</sup> Jonathan Becker, **Nari Jeon**, Markus Döblinger, Thomas Stettner, Yeanitza Trujillo Gottschalk, Bernhard Loitsch, Sonja Matich, Marcus Altschner, Alexander W. Holleitner, Jonathan Finley, Lincoln J. Lauhon, and Gregor Koblmüller\*, “Helium ion microscopy as a high-resolution probe for complex quantum heterostructures in core-shell nanowires”, **Nano Letters**, 18 pp. 3911 (2018)
9. William Rose,<sup>1</sup> Holger Haas, Angela Q. Chen, **Nari Jeon**, Lincoln J. Lauhon, David G. Cory, and Raffi Budakian\*, “High-Resolution Nanoscale Solid-State Nuclear Magnetic Resonance Spectroscopy”, **Physical Review X**, 8 pp. 011030 (2018)
10. Dominik M. Irber,<sup>1</sup> Jakob Seidl, Damon J. Carrad, Jonathan Becker, **Nari Jeon**, Bernhard Loitsch, Julia Winnerl, Sonja Matich, Markus Döblinger, Yang Tan, Stefanie Morkötter, Gerhard Abstreiter, Jonathan J. Finley, Matthew Grayson, Lincoln J. Lauhon, and Gregor Koblmüller\*, “Quantum Transport and Sub-Band Structure of Modulation-Doped GaAs/AlAs Core-Superlattice Nanowires”, **Nano Letters**, 17 pp. 4886-4893 (2017)
11. Bernhard Loitsch,<sup>1</sup> **Nari Jeon**, Markus Döblinger, Julia Winnerl, Eric Parzinger, Sonja Matich, Ursula Wurstbauer, Hubert Riedl, Gerhard Abstreiter, Jonathan J. Finley, Lincoln J. Lauhon and Gregor Koblmüller\*, “Suppression of alloy fluctuations in GaAs-AlGaAs core-shell nanowires”, **Applied Physics Letters** 109 pp. 093105 (2016)
12. Iddo Amit,<sup>1</sup> **Nari Jeon**,<sup>1</sup> Lincoln Lauhon, and Yossi Rosenwaks\*, “Impact of Dopant Compensation on Graded p-n Junctions in Si Nanowires”, **ACS Applied Materials & Interfaces** 8 pp. 128-134 (2016)

13. **Nari Jeon**,<sup>1</sup> Bernhard Loitsch,<sup>1</sup> Stefanie Morkoetter, Gerhard Abstreiter, Jonathan Finley, Hubert J. Krenner, Gregor Koblmüller\*, and Lincoln J. Lauhon\*, “Alloy Fluctuations Act as Quantum Dot-like Emitters in GaAs-AlGaAs Core-Shell Nanowires”, **ACS Nano** 9 pp. 8335-8343 (2015)
14. Stefanie Morkötter,<sup>1</sup> **Nari Jeon**, Daniel Rudolph, Bernhard Loitsch, Danĉe Spirkoska, Eric. Hoffmann, Markus Döblinger, Sonja Matich, Jonathan J. Finley, Lincoln J. Lauhon, Gerhard Abstreiter, and Gregor Koblmüller\*, “Demonstration of Confined Electron Gas and Steep-Slope Behavior in Delta-Doped GaAs-AlGaAs Core-Shell Nanowire Transistors”, **Nano Letters** 15 pp. 3295–3302 (2015)
15. **Nari Jeon**,<sup>1</sup> Shadi A. Dayeh, and Lincoln J. Lauhon\*, “Origin of Polytype Formation in VLS-Grown Ge Nanowires through Defect Generation and Nanowire Kinking”, **Nano Letters** 13 pp. 3947-3952 (2013)
16. **Nari Jeon**,<sup>1</sup> Kyung-Seok Moon, Dibyaranjan Rout, and Suk-Joong L. Kang\*, “Enhanced Sintering Behavior and Electrical Properties of Single Phase BiFeO<sub>3</sub> Prepared by Attrition Milling and Conventional Sintering”, **Journal of the Korean Ceramic Society** 49 pp. 485-492 (2012)
17. **Nari Jeon**,<sup>1</sup> Dibyaranjan Rout, Ill Won Kim, and Suk-Joong L. Kang\*, “Enhanced Multiferroic Properties of Single-Phase BiFeO<sub>3</sub> Bulk Ceramics by Ho Doping”, **Applied Physics Letters** 98 pp. 072901 (2011)

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## **PRESENTATIONS**

1. **Nari Jeon**, Jonathan Hernandez, Daniel Rosenmann, Stephen K. Gray, Jonathan Foley, and Alex B. F. Martinson\*, “Thermally Stable Emitters Selected by Pareto Optimization for Solar Thermophotovoltaics” (talk) APS March Meeting, 2018
2. **Nari Jeon**, Stefanie Morkoetter, Daniel Rudolph, Gregor Koblmüller, and Lincoln J. Lauhon\*, “Atom Probe Tomography of GaAs-AlGaAs Core-Shell Nanowire Heterostructures”, (talk) 2014 MRS Fall Meeting & Exhibit, 2014
3. **Nari Jeon**, Stefanie Morkoetter, Daniel Rudolph, Gregor Koblmüller, and Lincoln J. Lauhon\*, “Atom Probe Tomography Analysis of GaAs-AlGaAs Core-Shell Nanowire Heterostructures”, (talk) AVS 61st International Symposium & Exhibition, 2014
4. **Nari Jeon** and Lincoln Lauhon\*, “Layer-by-layer growth mechanisms of VLS-grown Ge polytype nanowires”, (poster) Gordon Research Conferences: Thin Film & Crystal Growth Mechanisms, 2013
5. **Nari Jeon**, Kyung-Seok Moon and Suk-Joong L. Kang\*, “Leakage Current Reduction via Microstructure Development in BiFeO<sub>3</sub> Ceramics”, (poster) The 7th Asian Meeting on Ferroelectricity and The 7th Asian Meeting on ElectroCeramics, 2010.
6. **Nari Jeon**, Kyung-Seok Moon and Suk-Joong L. Kang\*, “Leakage Current Suppression by Enhancing Sinterability of BiFeO<sub>3</sub> Ceramics”, (poster) The Spring Meeting of The Korean Ceramic Society, 2010.

## **BOOK CHAPTERS**

1. **Nari Jeon** and Lincoln J. Lauhon, “Atom Probe Tomography of Nanowires”, in Shadi Dayeh, Anna Fontcuberta I. Morral, and Chennupati Jagadish (Eds.), **Semiconductors and Semimetals**, Volume 93, Oxford, 2015.
2. **Nari Jeon** and Lincoln J. Lauhon, “Epitaxial Heterostructure Nanowires”, in Fumitaro Ishikawa and Irina A. Buyanova (Eds.), **Novel Compound Semiconductor Nanowires: Materials, Devices, and Applications**, Pan Stanford Publishing, 2017.