

Publications List

Donna Washington Stokes

PUBLICATIONS (h-index – 14)

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1. Learning and Leading as Collaborative Physics Education/Physics Partners: Building a Physics Teacher Education Program, **Donna W Stokes** and Paige K Evans, Chapter in Craig, Cheryl J., Turchi, Laura, McDonald, Denise M (Eds.), *Cross-Disciplinary, Cross-Institutional Collaboration in Teacher Education*. Cham: Palgrave Macmillan, p 271-284 (2020).
2. Teaching through Culture: Employing Culturally Responsive Pedagogy to Transform Postsecondary STEM Instruction, McAlister-Shields, L., Hutchison, L., and **Stokes, D.** Chapter in J. Conyers, C. Edwards, & K. Thompson (Eds.), *African Americans in Higher Education: A Critical Study of Social and Philosophical Foundations of Africana Culture*. Gorham, ME: Myers Education Publishing (2020).
3. Long mean free paths of room-temperature THz acoustic phonons in a high thermal conductivity material, Ting-Han Chou, Lucas Lindsay, Alexei A. Maznev, Jateen S. Gandhi, **Donna W. Stokes**, Rebecca L. Forrest, Abdelhak Bensaoula, Keith A. Nelson, and Chi-Kuang Sun, *Phys. Rev. B*, **100**, 094302 (2019).
4. The Gordian Knot of Teacher Induction: When Context Trumps Teacher Preparation and the Desire to Teach, Cheryl J. Craig, Paige Evans, Jing Li and **Donna Stokes**, A chapter in Denise McDonald (Ed.), *Facing Challenges and Complexities in Retention of Novice Teachers*, Information Publishing, Charlotte, North Carolina (2018).
5. A tribute to ‘unsung teachers’: teachers’ influences on students enrolling in STEM programs with the intent of entering STEM careers, Cheryl J Craig, Paige Evans, Rakesh Verma, **Donna Stokes**, and Jing Li, *European Journal of Teacher Education*, DOI:10.1080/02619768.2018.1523390 (2018).
6. The influence of parents on undergraduate and graduate students’ entering the STEM disciplines and STEM careers, Cheryl J. Craig, Rakesh Verma, **Donna Stokes**, Paige Evans and Bobby Abrol, *International Journal of Science Education*, DOI:10.1080/09500693.2018.1431853 (2018).
7. The embodied nature of narrative knowledge: A cross-study analysis of embodied knowledge in teaching, learning, and life knowledge in teaching, learning, and life, Cheryl J. Craig, JeongAe You., Yali Zou, Rakesh Verma, **Donna Stokes**, Paige Evans, Gayle Curtis, *Teaching and Teacher Education*, 71, 329 (2018).
8. Propagation of THz acoustic wave packets in GaN at room temperature, Maznev, A. A., Hung, T.-C., Yao, Y.-T., Chou, T.-H., Gandhi, J. S., Lindsay, L., Shin, H. D., **Stokes, D. W.**, Forrest, R. L., Bensaoula, A., Sun, C.-K. and Nelson, K. A., *Appl. Phys. Lett.*, **112**, 061903 (2018).

9. Math Remediation Intervention for Student Success in the Algebra-Based Introductory Physics Course, Forrest, R.L., **Stokes, D.W.**, Burridge, A.B. and Voight, C.D., *Physical Review Physics Education Research*, 13, 20137 (2017).
10. Developing STEM Teachers through both Informal and Formal Learning Experiences, **Stokes, D.**, Evans, P. and Craig, C., Search and Research: *Teacher Education for Contemporary Context*. Editors Juanjo Mena, Ana Garcia Valcarcel, Francisco Garcia-Penalvo and Marta Martin del Pozo, Publiusher Ediciones Universidad de Salamanca (2017).
11. Attracting, preparing and retaining teachers in high need areas: A science as inquiry model of teacher education, Craig, C., Evans, P., **Stokes, D.** and Bott, S., Chapter in M. Peters, B. Cowie and I. Mentor (Eds.) *A companion to research in teacher education*, New York, NY: Springer Publishing. (2017).
12. Recruitment, Retention and Preparation of Secondary Physics and Chemistry Teachers. **Stokes, D.**, Evans, P., Craig, C., and Bott, S., *American Physical Society Forum on Education Newsletter* (Fall 2016).
13. Pre-testing and early Intervention in Introductory General Physics I, **Stokes, D.W.**, Forrest, R.L., and Voight, C.D., Publications from the 6th International Technology Education and Development Conference, Valencia, Spain (March 2012).
14. Effect of strain on the growth of InAs/GaSb superlattices: An x-ray diffraction study J. H. Li, **D. W. Stokes**, J. C Wickett, O. Caha, K. E. Bassler, and S. C. Moss *J. Appl. Phys.*, **107**, 123504 (2010).
15. Short Period InAs/GaSb superlattices for mid-infrared photodetectors, H.J. Haugan, F. Szmulowicz, G.J. Brown, B. Ullrich, S.R. Munshi, S. Elhamri, J.C. Wickett and **D.W. Stokes**, *Phys. Stat. Sol.*, **4**, 1702-1706 (2007).
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17. X-ray Diffraction Analysis of an Osmium Silicide Epilayer Grown on Si (100) by Molecular Beam Epitaxy, F.Z. Amir, R.J. Cottier, T.D. Golding, W. Donner, N. Anibou and **D.W. Stokes**, *J. Cryst. Growth*, **294**, 174-178 (2006).
18. Propagation of THz acoustic wave packets in GaN at room temperature, Maznev, A. A., Hung, T.-C., Yao, Y.-T., Chou, T.-H., Gandhi, J. S., Lindsay, L., Shin, H. D., **Stokes, D. W.**, Forrest, R. L., Bensaoula, A., Sun, C.-K. and Nelson, K. A., *Appl. Phys. Lett.*, **112**, 061903 (2018).
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22. Recruitment, Retention and Preparation of Secondary Physics and Chemistry Teachers. **Stokes, D.**, Evans, P., Craig, C., and Bott, S., *American Physical Society Forum on Education Newsletter* (Fall 2016).
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24. Effect of strain on the growth of InAs/GaSb superlattices: An x-ray diffraction study J. H. Li, **D. W. Stokes**, J. C Wickett, O. Caha, K. E. Bassler, and S. C. Moss *J. Appl. Phys.*, **107**, 123504 (2010).
25. Short Period InAs/GaSb superlattices for mid-infrared photodetectors, H.J. Haugan, F. Szmulowicz, G.J. Brown, B. Ullrich, S.R. Munshi, S. Elhamri, J,C. Wickett and **D.W. Stokes**, *Phys. Stat. Sol.*, **4**, 1702-1706 (2007).
26. Growth of Short-Period InAs/GaSb Superlattices, H.J. Haugan, K. Mahalingam, G.J. Brown, W.C. Mitchal, B. Ullrich, L. Grazulis, S. Elhamri, J,C. Wickett and **D.W. Stokes**, *J. Appl. Phys.*, **100**, 123110-1- 123110-5 (2006).
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28. Effects of Interfacial Strain on the Morphological Instability of Semiconductor Epitaxial Films, J.H. Li and **D.W. Stokes**, *Appl. Phys. Lett.*, **89**, 111906-1 – 111906-3 (2006).
29. X-ray diffraction Analysis of Interdiffusion in $Al_{1-x}In_xAs_{1-y}Sb_y$ Multilayers, R.L. Forrest, **D.W. Stokes**, J.H. Li, R. Lukic-Zrnica and T.D. Golding, *J Vac. Sci. Technol. B*, **24**, 1127-1129 (2006).
30. Effects of Interfacial Bonds on Morphological Instability of Slightly Lattice Mismatched Epitaxial Thin Films, J.H. Li, **D.W. Stokes**, O. Caha, S.L. Ammu, J. Bai, K.E. Bassler, and S.C. Moss, *Science Highlight from the National Synchrotron Light Source*, (November 2005).
31. Morphological Instability in InAs/GaSb Superlattices Due to Interfacial Bonds, J.H. Li, **D.W. Stokes**, O. Caha, S.L. Ammu, J. Bai, K.E. Bassler, and S.C. Moss, *Phys. Rev. Letters*, **95**, 96104-1 – 96104-4 (2005).

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33. Optical and Structural Properties of InAs/GaSb Nanostructures, **D.W. Stokes**, J.H. Li, R.L. Forrest, S.L. Ammu, J.C. Lenzi, S.C. Moss. B. Nosh, E.H. Aifer, B. Bennett and L.J. Whitman, *Materials Research Society Symposia Proceedings*, **794**, 271-276 (2004).
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36. Type II Antimonide Quantum Well for Mid-Infrared Laser, M.J. Yang, J.R. Meyer, W.W. Bewley, C.L. Felix, I. Vurgaftman, W. Barvosa-Carter, L.J. Whitman, R.E. Bartolo, **D.W. Stokes**, H. Lee and R.U. Martinelli, *Optical Materials*, **17**, (1-2), 179-183(2001)
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