

Publications List

Donna Washington Stokes

PUBLICATIONS (42 total; h-index – 13)

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1. 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).
 2. 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).
 3. 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).
 4. 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).
 5. 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).
 6. 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).
 7. 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, Publischer Ediciones Universidad de Salamanca (2017).
 8. Attracting, preparing and retaining teachers in high need areas: A science as inquiry model of teacher education. Chapter in M. Peters, B. Cowie and I. Mentor (Eds.) *A companion to research in teacher education.*, Craig, C., Evans, P., **Stokes, D.** and Bott, S., New York, NY: Springer Publishing. (2017).
 9. 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).

10. 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).
11. 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).
12. 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).
13. 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).
14. 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).
15. 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).
16. 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-Zrnic and T.D. Golding, *J Vac. Sci. Technol. B*, **24**, 1127-1129 (2006).
17. 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).
18. 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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21. X-ray Diffraction Analysis of Lateral Composition Modulation in InAs/GaSb Superlattices Intended for Infrared Detector Applications, D.W. Stokes, R.L. Forrest, J.H. Li, S. C. Moss. B. Noshko, B. Bennett, L.J. Whitman and M. Goldberg, *IEE – Optoelectronics, Proceedings from the 5th International Conference on Mid-Infrared Optoelectronic Materials and Devices*, **150**, 420-423 (2003).

22. Lateral Composition Modulation in InAs/GaSb Superlattices, D.W. Stokes, R.L. Forrest, J.H. Li, S.C. Moss, B. Nosh, B. Bennett, L.J. Whitman and M. Goldberg, *J. Appl. Phys.*, **93**, 311-315 (2003).
23. 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)
24. Electrical and Magneto Transport in $\text{Al}_{1-x}\text{In}_x\text{As}_{1-y}\text{Sb}_y/\text{GaSb}$ Multilayers, R. Lukic-Zrnic, D.W. Stokes, C.L. Littler and T.D. Golding, *Semicond. Sci. Tech.*, **16**, 353-357 (2001).
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28. Type II mid-infrared lasers, Jerry R. Meyer, William W. Bewley, Igor Vurgaftman, Christopher L. Felix, Linda J. Olafsen, Edward H. Aifer, Donna W. Stokes, Ming J. Yang, Hao Lee, Raymond J. Menna, Ramon U. Martinelli, Dmitri Z. Garbuzov, John C. Connolly, Mikhail A. Maiorov, Alan R. Sugg, and Gregory H. Olsen, *Proc. SPIE*, **3947**, 100 (2000).
29. High Temperature W Diode Lasers Emitting at $3.3 \mu\text{m}$, L. J. Olafsen, W.W. Bewley, I. Vurgaftman, C.L. Felix, E.H. Aifer, D.W. Stokes, J.R. Meyer, H. Lee, R.J. Menna, R.U. Martinelli, D.Z. Garbuzov, M. Maiorov, J.C. Connolly, A.R. Sugg, and G.H. Olsen, *Materials Research Society symposia proceedings*, **607**, 95 (2000).
30. Optical-Pumping Injection Cavity (OPIC) Mid-IR “W” Lasers with High Efficiency and Low Loss, W.W. Bewley, C.L. Felix, I. Vurgaftman, D.W. Stokes, J.R. Meyer, H. Lee, and R.U. Martinelli, *IEE Phot. Tech. Lett.* **12**, 477-479 (2000).
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32. Mid-IR broadened-waveguide and angled-grating distributed feedback(α -DFB) “W” quantum well lasers, C.L. Felix, I. Vurgaftman, R.E. Bartolo, D.W. Stokes, M.J. Jurkovic, J.R. Lindle, J.R. Meyer, M.-J. Yang, H. Lee, R.J. Menna, R.U. Martinelli, D.Z. Garbuzov, J.C. Connolly, M. Maiorov, A.R. Sugg and G.H. Olsen, IEEE 17th International Semiconductor Laser Conference (2000).

33. High Temperature Diode and Optically-Pumped Mid-IR Lasers with Type-II “W” Quantum Wells, W.W. Bewley, L.J. Olafsen, I. Vurgaftman, C.L. Felix, E.H. Aifer, D.W. Stokes, J.R. Meyer, M.J. Yang, H. Lee, R.J. Menna, R.U. Martinelli, D.Z. Garbuzov, J.C. Connolly, M. Maiorov, A.R. Sugg, and G.H. Olsen, *Optics and Photonics News*, **10**, 18-19 (1999).
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