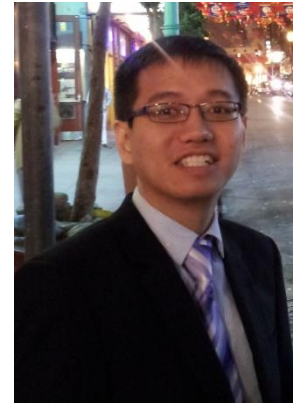


CHEE-KEONG TAN**7 Asa Drive # 218 • Bethlehem, PA 18015 • USA**Phone (610) 758-4326 • Fax (610) 758-2605 • E-mail: ckt209@Lehigh.EduInformation updated up to: **January 2016****Contact Information**

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PhD Candidate and Research Assistant
Center for Photonics and Nanoelectronics
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Research Group: www.ece.lehigh.edu/~tansu

**Birth Date and Place & Citizenship**

July 1988, Georgetown, Penang State, Malaysia.

Education**July 2011 – present, Lehigh University (Bethlehem, Pennsylvania, USA)****Ph.D. Candidate** in Electrical Engineering, Department of Electrical and Computer Engineering

- **Expected Graduation: June 2016**
- Research Assistant, PhD Advisor: Prof. Nelson Tansu (ECE, Lehigh)
- Research Areas: III-Nitride semiconductor materials and nanostructures for solid state lighting technologies.

Sep. 2008 – Jul. 2011, University of Sheffield (Sheffield, South Yorkshire, United Kingdom)**Bachelor of Engineering (B.Eng.)** in Electrical Engineering, Department of Electronic and Electrical Engineering

- Sheffield graduate award of University of Sheffield
- Thesis: Comparison of bulk and quantum well dilute nitride
- Graduate with First Class honors

Professional Experiences**July 2011 – present, Lehigh University (Bethlehem, Pennsylvania, USA)****Ph.D. Candidate and Research Assistant**

Department of Electrical and Computer Engineering (ECE)

P. C. Rossin College of Engineering and Applied Science & Center for Photonics and Nanoelectronics (CPN)

Ph.D. Advisor: Prof. Nelson Tansu

July 2010 – September 2010, University of Sheffield (Sheffield, South Yorkshire, United Kingdom)**Undergraduate Research Assistant**

Department of Electronic and Electrical Engineering (EEE)

Semiconductor materials and devices group

Advisor: Prof. John P.R. David

July 2009 – September 2009, Lehigh University (Bethlehem, Pennsylvania, USA)**Undergraduate Research Assistant**

Department of Electrical and Computer Engineering (ECE)

P. C. Rossin College of Engineering and Applied Science & Center for Optical Technologies (COT)

Advisor: Prof. Boon Siew Ooi

February 2008 – June 2008,

Chung Hwa Confucian High School (Greenlane, Penang, Malaysia)

High School Teacher

Courses covered Mathematics, Mandarin Language, Malay Language, Sports, and Moral Education

Responsibilities included class-lecturing students, guiding and advising students, assist-coaching athletes

Research Interests

“Novel Semiconductor Materials Design and Nanostructure Engineering for Future Devices”

My research interests are related to the novel materials and nanostructure design for future devices. Specifically, my research areas are related to novel design of III-Nitride semiconductor materials and nanostructures for solid state lighting technologies. My research works cover mainly the aspect of computational design in III-Nitride semiconductors and nanostructures by using advanced computational techniques. My research interests include the development of new dilute-impurity nitride materials, novel nanostructure engineering, the studies of efficiency droop of light emitting diodes in nitride material, fundamental electronic structures in nitride material and solar cell.

Leadership

2015-present	Lehigh University Optics and Photonics Society (Vice President & Founding member)
2015-present	SPIE Lehigh University Student Chapter (Vice President)
2014-2015	SPIE Lehigh University Student Chapter (Treasurer)
2010-2011	SPIE University of Sheffield Student Chapter (Student Advisor)
2010-2011	University of Sheffield Electronic & Electrical Engineering Society (Secretary)
2009-2010	SPIE University of Sheffield Student Chapter (President & Founder)

Awards and Honors Received

- **Selected as the Winner for the Department of Energy (DOE) Solid State Lighting (SSL) R&D Workshop Poster Competition 2016 (National)**, US Department of Energy, United States, February 2016
- **2015 CPN – Sherman Fairchild Fellowship** (Sep 2015 – present), Lehigh University
- **SPIE Optics and Photonics Education Scholarship** (Aug 2015 – present), Lehigh University
- **Rossin Doctoral Fellow** (April 2015 – present), Lehigh University
- **Lehigh University Dean’s Teaching Assistantship** (January 2015 – June 2015), Lehigh University
- **Sherman Fairchild Fellowship** (September 2014 – September 2015), Lehigh University
- **Lehigh University Research Assistantship** (June 2014 – present), Lehigh University
- **Lehigh University Fellowship** (January 2014 – June 2014), Lehigh University
- **Lehigh University Research Assistantship** (July 2011 – January 2014), Lehigh University
- **Lehigh University Dean’s Scholarship** (July 2011 – September 2012), Lehigh University
- **Sheffield Graduate Award** (July 2011), University of Sheffield
- **University of Sheffield Engineering International Scholarships** (2008 – 2011), University of Sheffield
- **Bronze Award in National Physics Competition** (2007), Malaysia
- **Distinction in National Chemistry Quiz** (2007), Malaysia
- **Distinction in Australia New South Wales Mathematic Competition** (2007), Malaysia
- **Distinction in National Physics Competition** (2005), Malaysia
- **Merit in Australia New South Wales Mathematic Competition** (2005), Malaysia
- **Olympiad Mathematic Contest** (2002 - 2005), Malaysia

Professional Affiliations

- 2009 – 2011, Student Member, International Society for Optical Engineering (SPIE)
- 2014 – present, Student Member, International Society for Optical Engineering (SPIE)
- 2014 – present, Student Member, Institute of Electrical and Electronics Engineers (IEEE)
- 2014 – present, Student Member, American Physical Society (APS)

Technical Refereed Journal and Conference Publications

Refereed Journal Articles

- ✓ Publication Link: <http://www.ece.lehigh.edu/~tansu/publications.html>
 - Total First Authorship Refereed Publications: 21; Total Refereed Journal Publications: 9
 - Additional Refereed Journals Currently Under Review / Submission (Jan 2016): 10
- ✓ **Isi Web of Knowledge Record** (as of January 2016): Total Citations = 165; h-index = 3
 - **Publication Name Search in ISI Web of Knowledge:** (Tan CK and Tansu)
- ✓ **Google Scholar** (as of January 2016): Total Citations = 180; h-index = 4

Refereed Journal Publications

1. [C. K. Tan](#), J. Zhang, X. H. Li, G. Y. Liu, B. O. Tayo, and N. Tansu, "First-Principle Electronic Properties of Dilute-As GaNAs Alloy for Visible Light Emitters", *IEEE / OSA Journal of Display Technology*, vol. 9, no. 4, pp. 272-279, April 2013. DOI: 10.1109/JDT.2013.2248342
2. G. Y. Liu, J. Zhang, [C. K. Tan](#), and N. Tansu, "Efficiency-Droop Suppression by Using Large-Bandgap AlGaInN Thin Barrier Layers in InGaN Quantum Wells Light-Emitting Diodes", *IEEE Photonics Journal*, vol. 5, no. 2, Art. 2201011, April 2013. DOI: 10.1109/JPHOT.2013.2255028
3. [C. K. Tan](#), and N. Tansu, "First-Principle Natural Band Alignment of GaN / Dilute-As GaNAs Alloy," *AIP Advances*, vol. 5, no. 1, p. 017129, January 2015. DOI: 10.1063/1.4906569
4. (Invited Paper) [C. K. Tan](#), and N. Tansu, "Nanostructured Lasers: Electrons and Holes Get Closer," *Nature Nanotechnology*, vol. 10, no. 2, pp. 107-109, February 2015. DOI: 10.1038/nnano.2014.333
<http://www.nature.com/nnano/journal/v10/n2/full/nnano.2014.333.html>
5. [C. K. Tan](#), and N. Tansu, "Auger Recombination Rates in Dilute-As GaNAs Semiconductor", *AIP Advances*, vol. 5, no. 5, p. 057135, May 2015. DOI: 10.1063/1.4921394
6. P. F. Zhu, [C. K. Tan](#), W. Sun, and N. Tansu, "Aspect Ratio Engineering of Microlens Arrays in Thin-Film Flip-Chip Light-Emitting Diodes", *Applied Optics*, vol. 54, no. 34, pp. 10299-10303, November 2015. DOI: 10.1364/AO.54.010299
7. [C. K. Tan](#), D. Borovac, W. Sun and N. Tansu, "InGaN / Dilute-As GaNAs Interface Quantum Well for Red Emitters", *Scientific Reports* [Nature Publishing Group], vol. 6, Art. 19271, Jan. 2016. DOI: 10.1038/srep19271.
<http://www.nature.com/articles/srep19271>
8. [C. K. Tan](#), D. Borovac, W. Sun and N. Tansu, "Dilute-As AlNAs Alloy for Deep Ultraviolet Emitters", *Scientific Reports* [Nature Publishing Group] (accepted with revisions, December 2015).
<http://www.nature.com/srep/>
9. [C. K. Tan](#), W. Sun, D. Borovac and N. Tansu, "Large Optical Gain AlInN-Delta-GaN Quantum Well for Deep Ultraviolet Emitters", *Scientific Reports* [Nature Publishing Group] (accepted with revisions, January 2016).
<http://www.nature.com/srep/>

- ✓ **More than 5 additional refereed journal papers submitted for publication**

Refereed Conference Publications

1. C. L. Tan, H. S. Djie, [C. K. Tan](#), V. Hongpinyo, Y. H. Ding, and B. S. Ooi, "The Effect of Multi Active Junctions on Broadband Emission from InAs/InGaAlAs Quantum-dash Structure", *The 22nd Annual Meeting of the IEEE Photonics Society (IEEE PS'09)*, Belek-Antalya, Turkey, (2009).
2. C. L. Tan, H. S. Djie, [C. K. Tan](#), and B. S. Ooi, "Unique Lasing Mechanism of Localized Dispersive Nanostructures in InAs/InGaAlAs Quantum Dash Broad Interband Laser", *Novel In-Plane Semiconductor Lasers IX conference, SPIE Photonics West 2010*, San Francisco, CA, USA, (2010).
3. C. L. Tan, [C. K. Tan](#), H. S. Djie, and B. S. Ooi, "Absence of Quantized Energy-states Local Diffusion in Semiconductor Quantum Dash structures", *IEEE/OSA Conference on Lasers and Electro-Optics 2010 (IEEE CLEO/QELS'10)*, San Jose, California, (2010).
4. (Invited Conference Talk) N. Tansu, J. Zhang, G. Y. Liu, [C. K. Tan](#), P. F. Zhu, and H. P. Zhao, "Advances in III-Nitride Semiconductors for Energy Efficiency Applications," Proc. of the *KAUST-UCSB-NSF Solid State Lighting Workshop 2012*, Thuwal, Saudi Arabia, February 2012.

5. **(Invited Keynote Plenary Conference Talk)** N. Tansu, J. Zhang, G. Y. Liu, [C. K. Tan](#), P. F. Zhu, and H. P. Zhao, "Physics and Technology of III-Nitride Semiconductors for Energy Efficiency Applications," Proc. of the *IUMRS-ICYRAM Conference 2012*, Material Research Society (MRS), Singapore, July 2012.
6. **(Invited Conference Paper)** J. Zhang, G. Y. Liu, [C. K. Tan](#), P. F. Zhu, H. P. Zhao, and N. Tansu, "Engineering Nanostructures in Active Regions and Devices for High-Efficiency III-Nitride Light-Emitting Diodes – Epitaxy and Physics," Proc. of the *SPIE Optics + Photonics 2012*, NanoEpitaxy : Materials and Devices IV, San Diego, CA, August 2012.
7. [C. K. Tan](#), J. Zhang, X. H. Li, G. Y. Liu, and N. Tansu, "Dilute-As GaNAs Semiconductor for Visible Emitters," Proc. of the *IEEE Photonics Conference 2012*, Burlingame, CA, September 2012.
8. G. Y. Liu, J. Zhang, [C. K. Tan](#), and N. Tansu, "Characteristics of InGaN Quantum Wells Light-Emitting Diodes with Thin AlGaInN Barrier Layers," Proc. of the *IEEE Photonics Conference 2012*, Burlingame, CA, September 2012.
9. **(Invited Conference Paper)** N. Tansu, J. Zhang, G. Y. Liu, H. P. Zhao, [C. K. Tan](#), and P. F. Zhu, "Physics of High-Efficiency III-Nitride Quantum Wells Light-Emitting Diodes," Proc. of the *Asian Communications and Photonics (ACP) Conference 2012*, Guangzhou, China, November 2012.
10. G. Y. Liu, J. Zhang, [C. K. Tan](#), and N. Tansu, "InGaN-Delta-InN Quantum Well Light-Emitting Diodes with Carrier Transport Effect," Proc. of the *SPIE Photonics West 2013*, San Francisco, CA, February 2013.
11. [C. K. Tan](#), J. Zhang, G. Y. Liu, and N. Tansu, "Effect of Interband Energy Separation on the Interband Auger Processes in III-Nitride Semiconductors," Proc. of the *SPIE Photonics West 2013*, San Francisco, CA, February 2013.
12. **(Tutorial Conference Paper)** N. Tansu, J. Zhang, G. Y. Liu, H. P. Zhao, [C. K. Tan](#), and P. F. Zhu, "Internal and External Efficiency in InGaN-Based Light-Emitting Diodes," Proc. of the *Asian Communications and Photonics (ACP) Conference 2013*, Beijing, China, November 2013.
13. P. F. Zhu, [C. K. Tan](#), and N. Tansu, "Extraction Efficiency Enhancement of Thin-Film Flip-Chip GaN Light-Emitting Diodes with Self-Assembled Microsphere Arrays," Proc. of the *International Conference on White LEDs and Solid State Lighting (WLED 5) Conference 2014*, Jeju, Korea, June 2014.
14. [C. K. Tan](#), P. F. Zhu, and N. Tansu, "Investigation of Dilute-As GaNAs Active Regions for High Efficiency GaN-based Light-Emitting Diodes," Proc. of the *International Conference on White LEDs and Solid State Lighting (WLED 5) Conference 2014*, Jeju, Korea, June 2014.
15. [C. K. Tan](#), P. F. Zhu, and N. Tansu, "Controlling the Interband Auger Recombination Mechanism in III-Nitride Based Ternary Active Regions," Proc. of the *SPIE Optics + Photonics 2014*, Thirteenth International Conference on Solid State Lighting and LED-based Illumination Systems, San Diego, CA, August 2014.
16. P. F. Zhu, [C. K. Tan](#), and N. Tansu, "Comparison of Extraction Efficiency for Thin-Film Flip-Chip InGaN Light-Emitting Diodes with Microsphere and Microconcave Array Structures," Proc. of the *SPIE Optics + Photonics 2014*, Thirteenth International Conference on Solid State Lighting and LED-based Illumination Systems, San Diego, CA, August 2014.
17. P. F. Zhu, H. Y. Zhu, W. P. Qin, [C. K. Tan](#), and N. Tansu, "Eu³⁺-doped TiO₂ Nanospheres for GaN-based White Light-Emitting Diodes," Proc. of the *SPIE Optics + Photonics 2014*, Thirteenth International Conference on Solid State Lighting and LED-based Illumination Systems, San Diego, CA, August 2014.
18. P. F. Zhu, T. Toma, [C. K. Tan](#), and N. Tansu, "Investigation of Solar Hydrogen Generation from the GaN and InGaN Thin Films," Proc. of the *SPIE Optics + Photonics 2014*, Solar Energy + Technology, San Diego, CA, August 2014.
19. **(Invited Conference Paper)** P. F. Zhu, W. Sun, [C. K. Tan](#), and N. Tansu, "Light Extraction Efficiency Enhancement in GaN-Based LEDs with Self-Assembly Approach," Proc. of the *Progress In Electromagnetics Research Symposium (PIERS) 2014*, Guangzhou, China, August 2014.
20. **(Invited Keynote Conference Paper)** N. Tansu, [C. K. Tan](#), P. F. Zhu, and W. Sun, "Physics of High Efficiency and Efficiency-Droop in III-Nitride Light-Emitting Diodes," Proc. of the *Progress In Electromagnetics Research Symposium (PIERS) 2014*, Guangzhou, China, August 2014.
21. [C. K. Tan](#), and N. Tansu, "Dilute-P GaNP Semiconductor Alloy for Visible Light Emitter," Proc. of the *American Physical Society (APS) Annual March Meeting 2015*, San Antonio, Texas, USA, March 2015.
22. N. A. Lacroce, G. Y. Liu, [C. K. Tan](#), R. A. Arif, S. M. Lee, and N. Tansu, "Effect of Dopant Activation on Device Characteristics of InGaN-based Light Emitting Diodes," Proc. of the *American Physical Society (APS) Annual March Meeting 2015*, San Antonio, Texas, USA, March 2015.
23. W. Sun, [C. K. Tan](#), and N. Tansu, "Artificially-Engineered III-Nitride Digital Alloy for Solar Energy Harvesting," Proc. of the *American Physical Society (APS) Annual March Meeting 2015*, San Antonio, Texas, USA, March 2015.

24. [C. K. Tan](#), and N. Tansu, "InGaN-GaNAs Active Region for Visible Light Emitters in Red Spectral Regime," *Proc. of the MRS International Conference on Materials for Advanced Technologies (ICMAT) 2015*, Singapore, Republic of Singapore, June 2015.
25. [C. K. Tan](#), and N. Tansu, "Barrier Engineering in AlGaIn-Delta-GaN Heterostructure for Deep UV Emitters," *Proc. of the MRS International Conference on Materials for Advanced Technologies (ICMAT) 2015*, Singapore, Republic of Singapore, June 2015.
26. [C. K. Tan](#), and N. Tansu, "Design Analysis of InGaIn-GaNAs Active Region for Long Wavelength Visible Emission," *Proc. of the SPIE Optics + Photonics 2015*, Fourteenth International Conference on Solid State Lighting and LED-based Illumination Systems, San Diego, CA, August 2015.
27. W. Sun, [C. K. Tan](#), and N. Tansu, "Physics of Artificially-Engineered AlGaIn and InGaIn Based Digital Alloys," *Proc. of the SPIE Optics + Photonics 2015*, Low Dimensional Materials and Devices, San Diego, CA, August 2015.
28. N. A. Lacroce, G. Y. Liu, [C. K. Tan](#), R. A. Arif, S. M. Lee, and N. Tansu, "Understanding the Dopant Activation for Improved Manufacturing Yield in InGaIn-Based Light Emitting Diodes," *Proc. of the SPIE Optics + Photonics 2015*, Fourteenth International Conference on Solid State Lighting and LED-based Illumination Systems, San Diego, CA, August 2015.
29. [C. K. Tan](#), Z. J. Zhao, and N. Tansu, "Using Dilute-P GaNP Alloy as Improved Visible Active Region," *Proc. of the SPIE Optics + Photonics 2015*, Active Photonic Materials, San Diego, CA, August 2015.
30. [C. K. Tan](#), and N. Tansu, "Auger Recombination in Nanoscale III-Nitride Material System," *Proc. of the SPIE Optics + Photonics 2015*, Nanoengineering: Fabrication, Properties, Optics, and Devices XII, San Diego, CA, August 2015.
31. **(Invited Conference Paper)** N. Tansu, [C. K. Tan](#), and J. Wierer, "Tutorial on III-Nitride Solid State Lighting and Smart Lighting", *Proc. of the IEEE Photonics Conference 2015*, Reston, VA, October 2015.
32. [C. K. Tan](#), and N. Tansu, "Gain and Spontaneous Emission Characteristics of AlInN Quantum Well for Deep Ultraviolet Emitters", *Proc. of the IEEE Photonics Conference 2015*, Reston, VA, October 2015.
33. [C. K. Tan](#), and N. Tansu, "Dilute-As AlInAs Semiconductor for Ultraviolet Emitters", *Proc. of the IEEE Photonics Conference 2015*, Arlington, VA, October 2015.
34. W. Sun, [C. K. Tan](#), and N. Tansu, "Artificially Engineered InGaIn-Based Digital Alloy for Optoelectronics", *Proc. of the IEEE Photonics Conference 2015*, Reston, VA, October 2015.
35. B. A. Krick, G. Zeng, [C. K. Tan](#), and N. Tansu, "Surprisingly Low Wear Behaviour of Gallium Nitride", *2015 STLE Tribology Frontiers Conference*, Denver, CO, October 2015.
36. **(Invited Conference Paper)** [C. K. Tan](#), and N. Tansu, "Dilute-As GaNAs Quantum Wells for Visible Lasers with Reduced Auger Recombination", *Proc. of the SPIE Photonics West 2016*, Novel In-Plane Semiconductor Lasers XV, San Francisco, February 2016.
37. [C. K. Tan](#), D. Borovac, and N. Tansu, "Band Gap Narrowing with Dilute-Anion GaN Materials for Visible Emission", *Proc. of the SPIE Photonics West 2016*, Gallium Nitride Materials and Devices XI, San Francisco, CA, February 2016.
38. G. S. Zeng, [C. K. Tan](#), B. A. Krick, and N. Tansu, "Investigation of Mechanical Wear Rates in III-Nitride Materials", *Proc. of the SPIE Photonics West 2016*, Gallium Nitride Materials and Devices XI, San Francisco, CA, February 2016.
39. W. Sun, [C. K. Tan](#), and N. Tansu, "AlGaIn Digital Alloys for Deep-Ultraviolet Application", *Proc. of the SPIE Photonics West 2016*, Physics and Simulation of Optoelectronic Devices XXIV, San Francisco, CA, February 2016.
40. I. Fragkos, [C. K. Tan](#), V. Dierolf, Y. Fujiwara, and N. Tansu, "Rare-Earth Doped GaN Based Light Emitting Diode: A Model of Current Injection Efficiency", *Proc. of the SPIE Photonics West 2016*, Physics and Simulation of Optoelectronic Devices XXIV, San Francisco, CA, February 2016.
41. **(Invited – Student Award Winner)** [C. K. Tan](#), W. Sun, D. Borovac, J. J. Wierer, Jr., and N. Tansu, "InGaIn-GaNAs 'Interface Quantum Well' for Long-Wavelength Emission", DOE R&D Workshop on Solid State Lighting 2016, Raleigh, NC, USA, February 2016.

Patent or Invention Disclosures

1. Nelson Tansu, Wei Sun, and [Chee-Keong Tan](#), New Solar Materials. (US Patent Pending).
2. Nelson Tansu, and [Chee-Keong Tan](#), Flexible Electronics. (US Patent Pending).
3. Nelson Tansu, and [Chee-Keong Tan](#), New Deep UV Materials. (US Patent Pending).

Professional Services and Educational Activities

National / International Level

1. **Conference Presider (Session Chair)**, *SPIE Optics and Photonics 2015*, San Diego, CA, Nanoengineering: Fabrication, Properties, Optics, and Devices XII, Micro, Nano and Optical Materials, August 2015.
2. **Conference Presider (Session Chair)**, *SPIE Optics and Photonics 2015*, San Diego, CA, Nanoengineering: Fabrication, Properties, Optics, and Devices XII, Nanometrology and Precision, August 2015.
3. **Symposium Attendee (Invited)**, *International Year of Light 2015 Symposium hosted by National Science Foundation, National Academy of Sciences, American Institute of Physics, American Physical Society, Optical Society of America, IEEE Photonics Society, and SPIE*, Washington, DC, Light for a Better World: A Celebration of U.S. Innovation, September 2015.
4. **Conference University Exhibitor**, *IEEE Photonics Conference 2015*, Reston, VA, October 2015.

University / Department Level

1. **Research Undergraduate Student Mentor**, *NSF-supported Summer Experiences Research Program 2012*, Nicholas Stein (Lafayette College, United States), Lehigh University, Bethlehem, PA, June-August 2012.
2. **Substitute lecturer** for ECE 450 course (Senior undergraduate / Graduate level), *Applied Quantum Mechanics for Engineers*, Lehigh University, Bethlehem, PA, Fall 2014.
3. **Grader** for ECE 126 course (Freshman / Sophomore undergraduate level), *Fundamentals of Semiconductor Devices*, Lehigh University, Bethlehem, PA, Spring 2015.
4. **Visiting Lecturer Tour Organizer**, *SPIE Student Chapter at Lehigh University Technical Talk Event*, Prof. Mona Jarrahi (University of California Los Angeles, United States), Lehigh University, Bethlehem, PA, February 2015.
5. **Visiting Lecturer Tour Organizer**, *SPIE Student Chapter at Lehigh University Technical Talk Event*, Prof. Eva M. Campo (Bangor University, United Kingdom), Lehigh University, Bethlehem, PA, June 2015.

Journal Reviewing

1. **Photonics** (published by mdpi)
2. **Scientific Reports** (published by Nature Publishing Group)
3. **IEEE/OSA Journal of Display Technology** (published by IEEE / OSA)
4. **Optical Materials Express** (published by Optical Society of America)
5. **IEEE Photonics Journal** (published by IEEE)
6. **Journal of Materials** (published by Hindawi)
7. **International Journal of Photoenergy** (published by Hindawi)
8. **Journal of Photonics for Energy** (published by SPIE)
9. **Transactions on Components, Packaging and Manufacturing Technology** (published by IEEE)
10. **Applied Surface Science** (published by Elsevier)
11. **Electronics** (published by mdpi)
12. **Journal of Nanophotonics** (published by SPIE)

References

1. **Prof. Nelson Tansu** (PhD Advisor)
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6. **Prof. Jing Zhang**

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