

CURRICULUM VITAE OF

Dr. ISLAM ASHRY

Name: Islam Ahmed Ibrahim Youssef Ashry.

Current position: Assistant Professor, Department of Physical Engineering, University of Alexandria, Egypt.

Nationality: Egyptian.

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EDUCATION

- 1- Doctor of Philosophy: 2009 – 2012, Virginia Tech, USA. Major: Electrical Engineering.
 - 2- Master of Science: 2005 – 2007, University of Alexandria, Egypt. Major: Physical Engineering.
 - 3- Bachelor of Science: 1998 – 2003, University of Alexandria, Egypt. Major: Electrical Engineering.
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EMPLOYMENT

- 1- June 2014 – Present: Assistant Professor, Department of Physical Engineering, University of Alexandria, Egypt.
 - 2- September 2013 – June 2014: Assistant Professor, Department of Electrical Engineering, University of Business and Technology, Saudi Arabia.
 - 3- January 2013 – August 2013: Assistant Professor, Department of Physical Engineering, University of Alexandria, Egypt.
 - 4- January 2009 – December 2012: Research Assistant, Department of Electrical and Computer Engineering, Virginia Tech, USA.
 - 5- January 2005 – December 2008: Research and Teaching Assistant, Department of Physical Engineering, University of Alexandria, Egypt.
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RESEARCH AREAS

Fluorescence dynamics, nano-patterning, plasmon sensing, nonlinear optics, fiber optics, optical communications, optical networks, polymeric thin films, computational electrodynamics, and solar cells.

SKILLS & EXPERTISE

Atomic force microscopy (AFM), focused ion beam (FIB), confocal microscopy, fluorescence microscopy, scanning electron microscopy (SEM), profilometer, electron beam evaporation, spectroscopy, laser, optical fiber, optical devices, layer-by-layer self-assembly, and matlab.

JOURNAL & CONFERENCE PUBLICATIONS

- 1- Islam Ashry, Baigang Zhang, Moataz Bellah Khalifa, Joseph Calderone, Webster Santos, James R. Heflin, Hans Robinson, and Yong Xu, "Fluorescence lifetime based characterization of active and tunable plasmonic nanostructures," *Optics Express*. 20720, **22**, 2014.
- 2- Islam Ashry, Ishac Kandas, Xiangyu Wei, Joseph A. Calderone, Baigang Zhang, Hans D. Robinson, James R. Heflin, Webster L. Santos, and Yong Xu, "The impact of lithography on the fluorescence dynamics of self-assembled fluorophores," *Optics Express*. 12935, **22**, 2014.
- 3- Marwa M. Tharwat, Islam Ashry, Ali Elrashidi, and Amr Mahros, "A study of green wavelength-division multiplexed optical communication systems using cascaded fiber Bragg grating," *Optical Fiber Technology*. 467, **20**, 2014.
- 4- Islam Ashry, Ali Elrashidi, A. Mahros, M. Alhaddad, and Khaled Elleithy, "Investigating the Performance of Apodized Fiber Bragg Gratings for Sensing Applications," *Proceedings of the 2014 Zone 1 Conference of the American Society for Engineering Education*. April 3, 2014.
- 5- Ali M Elrashidi, Islam Ashry, A. Mahros, M. Alhaddad, and Khaled Elleithy, "Performance analysis of WDM-PON FTTH using different pulse shapes at 10 Gbps and 20 Gbps," *Proceedings of the 2014 Zone 1 Conference of the American Society for Engineering Education*. April 3, 2014.
- 6- Islam Ashry, Chalongrat Daengngam, Ishac Kandas, James R. Heflin, Hans D. Robinson, and Yong Xu, "Self-assembled nano-materials for nonlinear fiber optics and tunable plasmonics," *SPIE Conference*. August 25, 2013.

- 7- Islam Ashry, Baigang Zhang, Stefan V. Stoianov, Chalongrat Daengngam, James R. Heflin, Hans D. Robinson, and Yong Xu, "Probing the photonic density of states using layer-by-layer self-assembly," *Optics Letters*. 1835, **37**, 2012.
 - 8- Nader Shehata, Kathleen Meehan, Islam Ashry, Ishac Kandas, and Yong Xu, "Lanthanide-doped ceria nanoparticles as fluorescence-quenching molecular probes for dissolved oxygen," *Sensors and Actuators B*. 179, **183**, 2013.
 - 9- Ishac Kandas, Baigang Zhang, Chalongrat Daengngam, Islam Ashry, Chih-Yu Jao, Hans D. Robinson, James R. Heflin, Lan Yang, and Yong Xu, "High quality factor silica microspheres functionalized with self-assembled nanomaterials," *Optics Express*. 20601, **21**, 2013.
 - 10- Islam Ashry, Ali Elrashidi, Dalia Sallam, Moustafa H. Ali, and Khaled Elleithy, "Variable delay optical buffer using tunable fiber Bragg gratings," *CISSE Conference*. December 12, 2013.
 - 11- Ali Elrashidi, Islam Ashry, Khaled Elleithy, and Hassan Bajwa, "The effect of mutual coupling on a microstrip printed antenna array operates at 5 GHz using three different substrates," *CISSE Conference*. December 12, 2013.
 - 12- Islam Ashry, and Hossam M. H. Shalaby, "All-optical variable delay buffer for next generation optical networks," *ICTON Conference*. June 27, 2010.
 - 13- Islam Ashry, and Hossam M. H. Shalaby, "Tunable Fabry-Perot interferometer based on fiber Bragg gratings," *17th International Conference in Telecommunications*. April 4, 2010.
 - 14- Islam Ashry, Ishac kandas, and Mohamed Eltoweissy, "Multi-wavelength optical switch fabric for next-generation optical switches," *Emerging Network Intelligence Conference*. October 11, 2009.
 - 15- Mohamed M. Keshk, Islam Ashry, Moustafa H. Ali, and Ali M. Okaz, "Dispersion pre-compensation for a multi-wavelength erbium doped fiber laser using cascaded fiber Bragg gratings," *J. of Applied Sciences Research*. 1744, **5**, 2009.
 - 16- Mohamed M. Keshk, Islam Ashry, Moustafa H. Ali, and Ali M. Okaz, "Analysis of different fiber Bragg gratings for use in a multi-wavelength erbium doped fiber laser," *24th National Radio Science Conference*. March 13, 2007.
 - 17- Islam Ashry, Mohamed M. Keshk, Moustafa H. Ali, and Ali M. Okaz, "Tunable multi-wavelength erbium doped fiber laser using cascaded apodized fiber Bragg gratings," *ICCTA Conference*. September 1, 2007.
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BOOK CHAPTERS

- 1- Islam Ashry, Ali Elrashidi, and Khaled Elleithy, "Variable delay optical buffer using tunable fiber Bragg gratings," New Trends in Networking Computing, Informatics, System Sciences, and Engineering, Springer 2014.
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TEACHING

- Electromagnetic fields.
 - Electromagnetic waves.
 - Microwave and optical devices.
 - Digital design.
 - Microprocessors and microcomputers.
 - Computational methods in engineering.
 - Engineering physics .
 - Engineering physics .
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AWARDS

- 1- Alexandria University Distinction Award, Alexandria University, 2003.
 - 2- Alexandria University Distinction Award, Alexandria University, 2002.
 - 3- Alexandria University Distinction Award, Alexandria University, 2001.
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PERSONAL SKILLS

- Dynamic, self-motivated, and hard worker.
- Ability to work under pressure.
- Ability to work individual and within groups.

- Good hand worker.
 - Good leadership and managing skills.
 - Ability to express my ideas and accept other's ideas with good communication skills.
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REFERENCES

- 1- Prof. Yong Xu
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- 2- Prof. Ioannis M. Besieris
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- 4- Prof. Sedki Riad
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- 5- Prof. Hossam Shalaby
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- 6- Prof. Webster L. Santos
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- 7- Prof. Randy Heflin
Department of Physics, Virginia Tech, Phone: +1540-231-4504, and Email: rheflin@vt.edu.
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