

Mohammad Saed

Education:

Doctor of Philosophy, December 1987, Electrical Engineering, Virginia Tech University, Blacksburg, Virginia, USA.

Master of Science, December 1984, Electrical Engineering, Virginia Tech University, Blacksburg, Virginia, USA.

Bachelor of Science, July 1983, Electrical Engineering, Middle East Technical University, Ankara, Turkey.

Academic experience:

January 2001 - present: Associate Professor (tenured), Department of Electrical and Computer Engineering, Texas Tech University, Lubbock, Texas.

Sep. 1995 – Dec. 2000: Associate Professor (tenured), Department of Electrical Engineering, State University of New York, New Paltz, New York.

Sep. 1989 – Aug. 1995: Assistant Professor, Department of Electrical Engineering, State University of New York, New Paltz, New York.

Dec. 1987 – Aug. 1989: Research Associate, Department of Electrical Engineering, Virginia Tech, Blacksburg, Virginia.

Sep. 1986 – Nov. 1987: Research Assistant, Department of Electrical Engineering, Virginia Tech, Blacksburg, Virginia.

Mar. 1984 – Aug. 1986: Teaching Assistant, Department of Electrical Engineering, Virginia Tech, Blacksburg, Virginia.

Honors and awards:

- Received TTU IEEE Student Branch Outstanding Professor of the Year Award, 2016-2017.
- Received the Charles L. Burford Faculty Award in 2010.
- Received TTU College of Engineering Tau Beta Pi Professor of the Year Award, 2008-2009.
- Received TTU IEEE Student Branch Outstanding Professor of the Year Award, 2008-2009.
- Received Texas Tech President's Excellence in Teaching Award in 2007.
- Received the Lockheed Martin Excellence in Teaching Award for the College of Engineering in 2006.
- Granted membership to Texas Tech University's Teaching Academy in 2005.
- Received Texas Tech President's Excellence in Teaching Award in 2003.
- Summer Faculty Fellow at NASA's Jet Propulsion Laboratory, Pasadena, CA, summer 1996.

Service activities:

- ABET Coordinator / Chair of ABET Committee for the ECE Department, 2009-2014.
- Member of College of Engineering Tenure & Promotion Committee 2012-2015.
- Member of Departmental Excellence in Teaching Award Selection Committee, 2009-2011, 2017-2019.
- Served on several departmental committees including Computer Engineering (chair), Curriculum (member), Scholarship (member), Electromagnetics and Power (chair), and faculty search committees (member).
- Vice-Chair of the IEEE South Plains Section, January 2004-December 2008.
- Served on the College of Engineering Awards Committee, 2003-2005 (chair) and 2007-2009 (member).
- Reviewed papers for the several journals including IEEE Transactions on Microwave Theory and Techniques, IET Microwaves, Antennas, and Propagation, IEEE Sensors Journal, IEEE Microwave and Wireless Components Letters, IEEE Antennas and Wireless Propagation Letters, Progress in Electromagnetics Research, Journal of Electromagnetic Waves and Applications, International Journal

of RF and Microwave Computer Aided Engineering, Journal of Microwave Power & Electromagnetic Energy, MDPI Sensors, IEEE Transactions on Plasma Science.

The most important publications from the past five years:

1. A. R. Alajmi and M. A. Saed, "Microwave Imaging with Noise Waveforms Using FDTD Time Reversal Method," *Microwave and Optical Technology Letters*, vol. 60, pp. 1275-1280, May 2018.
2. C.B. Sweeney, A.G. Moran, J.T., Gruener, A. Strasser, M.J. Pospisil, M.A. Saed, M.J. Green, "Radio Frequency Heating of Carbon Nanotube Composite Materials," *ACS Applied Materials & Interfaces*, 10 (32), pp. 27252–27259, July 2018.
3. M. Anas, Y. Zhao, M. A. Saed, K. Ziegler, and M. J. Green, "Radio frequency heating of metallic and semiconducting single-walled carbon nanotubes," *Nanoscale*, 11, pp. 9617-9625, May 2019.
4. N. Patil, A. Cardenas, C. Naveen, K. Mishra, P. Singhla, C. B. Sweeney, M. A. Saed, M. Radovic, M. J. Green, "Radio Frequency and Microwave Heating of Pre-ceramic Polymer Nanocomposites with Applications in Mold-Free Processing," *Advanced Engineering Materials*, vol.21(8), August 2019.
5. N. Patil, X. Zhao, N. K. Mishra, M. A. Saed, M. Radovic, M. J. Green, "Rapid heating of silicon carbide fibers under Radio Frequency fields and application in curing pre-ceramic polymer composites," *ACS Applied Materials & Interfaces*, November 2019.
6. M. Fairouz and M. A. Saed, "A Complete System of Wireless Power Transfer Using a Circularly Polarized Retrodirective Array," *Journal of Electromagnetic Engineering and Science*, Vol. 20, No. 2, pp. 139-144, April 2020.
7. N. Patil, N. K. Mishra, M. A. Saed, M. J. Green, B. A. Wilhite, "Radio Frequency Driven Heating of Catalytic Reactors for Portable Green Chemistry," *Advanced Sustainable Systems*, August 2020.
8. D. Rodriguez, M. A. Saed, C. Li, "A WPT/NFC-Based Sensing Approach for Beverage Freshness Detection Using Supervised Machine Learning," *IEEE Sensors Journal*, Vol. 21, No. 1, pp. 733-742, January 2021.
9. X. Qiu, M. A. Saed, J. J. Mankowski, J. Dickens, A. Neuber, and R. P. Joshi, "Model Evaluations of Multipactor Suppression in Rectangular Waveguides Through Grooved Surfaces and Static Magnetic Field," *AIP Advances*, 11, 025039, February 2021.
10. N. Patil, S. Khatri, M. A. Saed, M. Naraghi, M. J. Green, "Radio frequency heating response of polyacrylonitrile (PAN) films and nanofiber mats," *ACS Applied Polymer Materials*, 3, 6, 3125–3130, May 2021.
11. M. Anas, M. M. Mustafa, A. Vashisth, E. Barnes, M. A. Saed, C. L. Moores, and M. J. Green, "Universal Patterns of Radio-Frequency Heating in Nanomaterial-loaded Structures," *Applied Materials Today*, Vol. 23, 101044, June 2021.
12. M. A. Saed, N. Patil, M. J. Green "In-Situ Temperature-Dependent Dielectric Characterization of Nanocomposites Heated with RF Energy," *IEEE Transactions on Instrumentation and Measurement*, December 2021.

Professional development:

Participated in many international and national conferences as author / co-author / presenter (~70 presentations), and chaired some sessions. Conferences included the IEEE International Symposium on Antennas and Propagation & URSI Radio Science Meeting, IEEE International Microwave Symposium, International Conference on Electromagnetics in Advanced Applications, IEEE Wireless and Microwave Technology Conference, European Electromagnetics Conference, and several others.