

Europass Curriculum vitae

Personal information

Surname / First name **Nikolaou Symeon**

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Nationality Cypriot

Education

Dates Aug 2003 – Jul 2007
 Title of qualification awarded PhD in Electrical and Computer Engineering
 Name of awarding institution Georgia Institute of Technology, Atlanta, GA, USA
 Key features Design and implementation of compact reconfigurable antennas for UWB and WLAN applications

Dates Aug 2003 – Dec 2005
 Title of qualification awarded MSECE Masters in Electrical and Computer Engineering
 Name of awarding institution Georgia Institute of Technology, Atlanta, GA, USA
 Key features Design of smart antennas for WLAN applications using PIN diodes

Dates Sep 1998 – June 2003
 Title of qualification awarded BSECE Diploma in Electrical and Computer Engineering
 Name of awarding institution National Technical University of Athens, Athens, Greece
 Key features The programme comprehensively covered the foundations of electrical and computer engineering with emphasis in wireless communications.

Work experience

Dates January 2023 – Present
 Employer Name Frederick University
 Occupation or position(s) held **Professor** Department of Electrical Computer Engineering and Informatics
 Main activities and responsibilities Teaching, research, students' registration and academic advising

Dates January 2020 – December 2022
 Employer Name Frederick University
 Occupation or position(s) held **Associate Professor** Department of Electrical Computer Engineering and Informatics
 Main activities and responsibilities Teaching, research, students' registration and academic advising

Dates May 2015 – December 2019
 Employer Name Frederick University
 Occupation or position(s) held **Assistant Professor** Electrical Engineering Dept.
 Main activities and responsibilities Teaching, research, students' registration and academic advising

Academic Profile

Dates	September 2007 – April 2015
Employer Name	Frederick University Cyprus
Occupation or position(s) held	Lecturer Electrical Engineering Dept.
Main activities and responsibilities	Teaching, research, students' registration and academic advising
Awards	<p>2019 Best paper award on communication systems in 8th International Conference on Modern Circuits and Systems Technologies (MOCASST), Thessaloniki</p> <p>2018 Best Paper Award from IEEE ComSoc Green Communications & Computing Technical Committee</p> <p>Fulbright Traditional Scholarship for Masters studies 2003-2005</p> <p>Honorary scholarship from Greece State Scholarship Foundation during undergraduate studies 1998-2003 for ranked first in the national (Cyprus) university placement exams</p> <p>Graduated from ECE NTUA with Highest Honours 9.0/10.0</p> <p>Ranked 1st out of 8000 candidates in the 1996 national exams for university access</p> <p>3rd Prize in the Pancyprian Olympiad in Physics 1996</p>
Professional Contribution	<p>Associate Editor</p> <p>Associate Editor of IET Microwaves Antennas and Propagation</p> <p>Associate Editor of International Journal of Antennas and Propagation</p> <p>Reviewer</p> <p>Reviewer of IEEE Transactions on Antennas and Propagation</p> <p>Reviewer of IEEE Transactions on Advanced Packaging</p> <p>Reviewer of IEEE Antennas and Wireless Propagation Letters</p> <p>Reviewer of IET Microwaves Antennas and Propagation</p> <p>Reviewer of IET Letters</p> <p>TPC Member</p> <p>EuCAP (European Conference on Antennas and Propagation) Technical Program Committee Member since 2009</p> <p>IEEE AP-S (Antennas and Propagation Society) Technical Program Committee 2010-2012</p> <p>MOCASST (International Conference on Modern Circuits and Systems Technologies) TPC Member since 2016</p> <p>ISMICT (International Symposium on Medical Information and Communication Technology) TPC Member since 2018</p> <p>COST MCM</p> <p>Cyprus' Delegate in Management Committee of COST IC0603 (ASSIST Antennas Systems & Sensors for Information Society Technology) Action</p> <p>Cyprus' Substitute Delegate in Management Committee of IC1102 - Versatile, Integrated, and Signal-aware Technologies for Antennas (VISTA)</p> <p>Cyprus' substitute Delegate in Management Committee of COST IC1301 – Wireless Power Transmission for Sustainable Electronics (WIPE)</p> <p>Cyprus' Delegate in Management Committee of COST TD1301 (MiMed Accelerating the Technological, Clinical and Commercialisation Progress in the Area of Medical Microwave Imaging)</p>
Service to the Institution	Elected Member of the School Council 20140

On-going Research Projects

Advanced RF Electronics Centre for Adaptive Metamaterials – **RF-META**
Program: NEW STRATEGIC INFRASTRUCTURE UNITS - YOUNG SCIENTISTS
Role: Co- Principal Investigator
Duration: March 2019 – June 2023
Budget: 1 000 000

Drone Early warning & jamming system – **DroneEyE**
Program: ATHENA Ministry of Defense
Role: Frederick University Coordinator
Duration: June 2021 – May 2024
Budget: 500 000

Smart Metasurfaces a Key Enabling Technology for Future 6G Communications - **SMURFS**
Program: RIF, Hubs of Excellence
Role: Project Coordinator
Duration: April 2022 – September 2024
Funding: 200 000

Nanoinformatics Approaches for Safe-by-Design Nanomaterials - **CompSafeNano**
Program: H2020, MSCA - RISE
Role: Frederick University team coordinator
Duration: September 2021 – August 2024
Funding: 2.1 M euros

PREVENTION, MITIGATION, MANAGEMENT OF INFECTIOUS DISEASES ON CRUISE SHIPS AND PASSENGER FERRIES – **HEALTHY SAILING**
Program: HORIZON-CL5-2021-D6-01-12
Role: Frederick University team coordinator
Duration: September 2022 – August 2025
Funding: 3.2 M euros

Completed Research Projects

Flying RFID Reader for Enhanced Range and Near Zero Shadowing – **RFLiD**
Program: Pre-Seed (Call for Startups)
Role: FRC coordinator
Duration: December 2020 – September 2022
Budget: 110 000

Robotically Controlled RADAR Inspired Wireless Charging for/from Flying UAV Platforms - **ICARUS**.
Program: RPF, HUBS of EXCELLENCE
Role: Project Coordinator
Duration: March 2020 – October 2022
Budget: 250 000

Simultaneous Wireless Information & energy Transfer for low-powered Communication technologies - **SWITCH**.
Program: RPF, HUBS of EXCELLENCE
Role: Project Coordinator
Duration: December 2018- May 2022

Design and implementation of reconfigurable passive modules for next generation cognitive radios.
Program: RPF, PENEK-SUPPORT
Role: Project Coordinator

Duration: August 2009- July 2012

Budget: 90 000

Design and implementation of RFID modules on low-cost paper for next generation ad-hoc networks

Program: RPF, PENEK-SUPPORT

Role Project Coordinator

Duration: August 2009 – November 2011

Budget: 80 500

Doctoral Thesis

Design and Implementation of Compact Reconfigurable Antennas for UWB and WLAN Applications, Georgia Institute of Technology, Atlanta, GA, USA, 2007

Publications

Book Chapters

- B2. A. Quddious, M. A. Antoniadis, P. Vryonides, and **S. Nikolaou**, "Voltage-Doubler RF-to-DC Rectifiers for Ambient RF Energy Harvesting and Wireless Power Transfer Systems", in *Recent Wireless Power Transfer Technologies* edited by Pedro Pinho, IntechOpen, 2019.
- B1. **S. Nikolaou** and A. Quddious "Antennas for UWB Applications" in *UWB Technology - Circuits and Systems* edited by Dr. Mohamed Kheir, IntechOpen, 2019.

Journal Papers

- J40 I. Ullah, B. D. Braaten, A. Ifikhar, **S. Nikolaou**, and D. E. Anagnostou, "Beamforming with $1 \times N$ Conformal Arrays," *Sensors*, 2022, no 17, pp. 6616.
- J39 D. Simpson, P. Vryonides, **S. Nikolaou** and D. Psychogiou, "Non-Reciprocal Balanced Bandpass Filters with Quasi-Elliptic Response," in *IEEE Transactions on Circuits and Systems II: Express Briefs*, 2022.
- J38 I. Aitbar, N. Shoaib, A. Alomainy, A. Quddious, **S. Nikolaou**, and Q. H. Abbasi, "AMC integrated multilayer wearable antenna for multiband WBAN applications", *Computers, Materials and Continua*, 2021.
- J37 T. Tamoor, N. Shoaib, F. Ahmed, T. Hassan, A. Quddious, **S. Nikolaou**, A. Alomainy, M. A. Imran, and Q.H. Abbasi, "A Multifunctional Ultrathin Flexible Bianisotropic Metasurface with Miniaturized Cell Size", *Scientific Reports - Nature*, 2021.
- J36 S. Arain, P. Vryonides, K. Nisar, A. Quddious, and **S. Nikolaou**, "Novel Selective Feeding Scheme Integrated with SPDT Switches for a Reconfigurable Bandpass-to-Bandstop Filter," *IEEE Access*, vol. 9, pp. 25233-25244, 2021.
- J35 S. M. Q. A. Shah, N. Shoaib, F. Ahmed, A. Alomainy, A. Quddious, **S. Nikolaou**, M. A. Imran, and Q. H. Abbasi, "A multiband circular polarization selective metasurface for microwave applications," *Scientific Reports-Nature*, vol. 11, no. 1, pp. 1-10, 2021.
- J34 S. Agarwal, D. Masotti, **S. Nikolaou**, and A. Costanzo, "Conformal Design of a High-Performance Antenna for Energy-Autonomous UWB Communication," *Sensors*, vol. 21, no. 17, 5939, 2021.
- J33 M. S. Sadiq, C. Ruan, H. Nawaz, M. Abbasi, and **S. Nikolaou**, "Mutual Coupling Reduction between Finite Spaced Planar Antenna Elements Using Modified Ground Structure," *Electronics*, vol. 10, no. 1, pp. 19, 2021.
- J32 A. Quddious, S. Zahid, F. A. Tahir, M. A. Antoniadis, P. Vryonides and **S. Nikolaou**, "Dual-

- Band Compact Rectenna for UHF and ISM Wireless Power Transfer Systems,* in IEEE Transactions on Antennas and Propagation, vol. 69, no. 4, pp. 2392-2397, April 2021.
- J31 A. Quddious, M. A. B. Abbasi, M. A. Antoniadis, P. Vryonides, V. Fusco and **S. Nikolaou**, "Dynamically Reconfigurable UWB Antenna Using an FET Switch Powered by Wireless RF Harvested Energy," in IEEE Transactions on Antennas and Propagation, vol. 68, no. 8, pp. 5872-5881, Aug. 2020.
- J30 S. Arain, A. Quddious, **S. Nikolaou**, and P. Vryonides, "Demonstration of Reconfigurable BPFs with Wide Tuning Bandwidth Range Using $3\lambda/4$ Open-and $\lambda/2$ Short-Ended Stubs," Technologies, vol. 8, no. 1, pp. 14, 2020.
- J29 S. Ilyas, N. Shoaib, **S. Nikolaou** and H. M. Cheema, "A Wideband Tunable Power Divider for SWIPT Systems," in IEEE Access, vol. 8, pp. 30675-30681, 2020
- J28 S. Arain, P. Vryonides, A. Quddious and **S. Nikolaou**, "Reconfigurable BPF with Constant Center Frequency and Wide Tuning Range of Bandwidth," in IEEE Transactions on Circuits and Systems II: Express Briefs, vol. 67, no. 8, pp. 1374-1378, Aug. 2020
- J27 A. Quddious, M. A. B. Abbasi, F. A. Tahir, M. A. Antoniadis, P. Vryonides, and **S. Nikolaou**, "UWB antenna with dynamically reconfigurable notch band using rectenna and active booster," IET Microwaves, Antennas & Propagation, vol. 13, no. 12, pp. 2046-2052, 2019.
- J26 S. Kim, A. Rida, V. Lakafosis, **S. Nikolaou**, and M. M. Tentzeris, "77-GHz mmWave antenna array on liquid crystal polymer for automotive radar and RF front-end module," ETRI Journal, vol. 41, no. 2, pp. 262-269, 2019.
- J25 M. S. Anwar, **S. Nikolaou**, H. Nawaz, and M. A. B. Abbasi, "Synthesis of X-band trisection bandpass filters using hybrid structures of $\lambda/4$ and $\lambda/2$ resonators," Microwave and Optical Technology Letters, vol. 61, no. 6, pp. 1461-1467, 2019.
- J24 A. Quddious, M.A.B. Abbasi, A.Saghir, S.Arain, M. A. Antoniadis, A.Polycarpou, P.Vryonides, and **S. Nikolaou**, "Dynamically Reconfigurable SIR Filter using Rectenna and Active Booster in IEEE Transactions on Microwave Theory and Techniques, vol. 67, no. 4, pp. 1504-1515, Apr. 2019
- J23 M.S. Anwar, **S. Nikolaou**, H. Nawaz, and M. A. B. Abbasi. "Synthesis of X-band trisection bandpass filters using hybrid structures of $\lambda/4$ and $\lambda/2$ resonators." Microwave and Optical Technology Letters vol 61, no. 6, pp: 1461-1467, Mar. 2019
- J22 S. Kim, A. Rida, V. Lakafosis, **S. Nikolaou**, and M.M. Tentzeris. "77-GHz mmWave antenna array on liquid crystal polymer for automotive radar and RF front-end module." ETRI Journal, vol 41, pp: 262-269, Jan. 2019.
- J21 A. Saghir, Quddious, S. Arain, P. Vryonides, and **S. Nikolaou**, "Single-/Dual- BPF Using Coupled-Line Stepped Impedance Resonators (CLSIR)" in IEEE Transactions on Circuits and Systems II: Express Briefs, Dec. 2018. (Early Access)
- J20 M. A. B. Abbasi, M. A. Antoniadis, and **S. Nikolaou**, "A compact microstrip crossover using NRI-TL metamaterial lines," Microwave and Optical Technology Letters, vol. 60, no. 11, pp. 2839-2843, Oct. 2018.
- J19 A. Quddious, M. A. B. Abbasi, M. H. Tariq, M. A. Antoniadis, P. Vryonides, and **S. Nikolaou**, "On the Use of Tunable Power Splitter for Simultaneous Wireless Information and Power Transfer Receivers," International Journal of Antennas and Propagation, vol. 2018, p. 12. Apr. 2018
- J18 M. A. B. Abbasi, M. A. Antoniadis, and **S. Nikolaou**, "A Compact Reconfigurable NRI-TL Metamaterial Phase Shifter for Antenna Applications," in IEEE Transactions on Antennas and Propagation, vol. 66, no. 2, pp. 1025-1030, Feb. 2018.
- J17 S. Arain, P. Vryonides, M. A. B. Abbasi, A. Quddious, M. A. Antoniadis, and **S. Nikolaou**, "Reconfigurable Bandwidth Bandpass Filter with Enhanced Out-of-Band Rejection Using π -Section-Loaded Ring Resonator," in IEEE Microwave and Wireless Components Letters, vol. 28, no. 1, pp. 28-30, Jan. 2018

- J16 S. Arain, P. Vryonides, M. Ali Babar Abbasi, A. Quddious, Marco A. Antoniadis, and **S. Nikolaou**, "Wideband BPF Using Quadruple-Mode Ring Resonator Loaded with Short-Circuited Stubs and Γ - Shaped Band-Stop Sections", Vol. 59, Issue 9, pp, 2316-2320, Wiley Microwave and Optical Technology Letters (MOTL), Sep. 2017
- J15 **S. Nikolaou** and M. Ali Babar Abbasi, "Design and Development of a Compact UWB Monopole Antenna with Easily-Controllable Return Loss" IEEE Transactions on Antennas and Propagation Vol. 65, Iss. 4, pp. 2063 - 2067, April 2017
- J14 M. Ali Babar Abbasi, **S. Nikolaou**, Marco Antoniadis, M. N. Stevanovic, P. Vryonides, "Compact EBG-Backed Planar Monopole for BAN Wearable Applications," IEEE Transactions on Antennas and Propagation, Vol.65, Iss. 2, pp.1 - 11, Feb. 2017
- J13 **S. Nikolaou** and M. Ali Babar Abbasi, "Miniaturization of UWB Antennas on Organic Material," International Journal of Antennas and Propagation (IJAP), vol. 16, 2016.
- J12 P. Vryonides, **S. Nikolaou**, S. Kim, M.M. Tentzeris, "Reconfigurable dual-mode band-pass filter with switchable bandwidth using PIN diodes", International Journal of Microwave and Wireless Technologies, Cambridge Journals, 7(6), 655-660, Dec. 2015
- J11 J. Krikidis, S. Timotheou, **S. Nikolaou**, G. Zheng, D. W. Kwan Ng, and R. Schober "Simultaneous Wireless Information and Power Transfer in Modern Communication Systems", IEEE Communications Magazine, vol. 52, Iss. 11, Nov. 2014 (**2018 Best Paper Award** from IEEE ComSoc Green Communications & Computing Technical Committee)
- J10 S. Kim, Y.-J. Ren, H. Lee, A. Rida, **S. Nikolaou**, M.M. Tentzeris, "Monopole Antenna with Inkjet-Printed EBG Array on Paper Substrate for Wearable Applications", IEEE Antennas and Wireless Propagation Letters, vol.11, pp.663-666, 2012
- J9 A. Rida, A. Margomeno, J.S. Lee, P. Schmalenberg, **S. Nikolaou**, and M.M. Tentzeris,"Integrated Wideband 2-D and 3-D Transitions for Millimeter-Wave RF Front-Ends", IEEE Antennas and Wireless Propagation Letters, Vol.9, pp.1080-1083, November 2010
- J8 V. Lakafosis, A. Rida, R. Vyas, Li Yang, **S. Nikolaou**, and M.M. Tentzeris, " Progress Towards the First Wireless Sensor Networks Consisting of Inkjet-Printed, Paper-Based RFID-Enabled Sensor Tags" Proceedings of the IEEE, Vol.98, Iss. 9, pp. 1601-1609, September 2010
- J7 A. Rida, Li Yang, S. Basat, A. Ferrer-Vidal, **S. Nikolaou**, and M.M. Tentzeris, "Design, Development and Integration of Novel Antennas for Miniaturized UHF RFID Tags" IEEE Transactions on Antennas and Propagation, Vol.57, Issue 11, pp.3450 - 3457, November 2009
- J6 **S. Nikolaou**, N. Kingsley, G. E. Ponchak, M. M. Tentzeris, and J. Papapolymerou, "UWB Elliptical Monopoles with a Reconfigurable Band Notch using MEMS Switches Actuated Without Bias Lines", IEEE Transactions on Antennas and Propagation, Vol. 57, Issue 8, pp. 2242-2251, August 2009.
- J5 Kim, B. Pan, **S. Nikolaou**, Y.S. Kim, J. Papapolymerou, M. M. Tentzeris, "A Novel Single-feed Circular Microstrip Antenna with Reconfigurable Polarization Capability" IEEE Transactions on Antennas and Propagation, Vol.56, Issue 3, pp.1663-1669 March 2008
- J4 G. R. DeJean, T. T. Thai, **S. Nikolaou**, and M. M. Tentzeris, "Design and Analysis of Microstrip bi-Yagi and Microstrip quad-Yagi Array Antennas for WLAN Applications", IEEE Antennas and Wireless Propagation Letters, Vol. 6, pp. 244-248, June 2007
- J3 **S. Nikolaou**, G.E. Ponchak, J. Papapolymerou, and M. M. Tentzeris, "Conformal Double Exponentially Tapered Slot Antenna (DE TSA) on LCP for UWB Applications", IEEE Transactions on Antennas and Propagation, Vol.54, No.6, pp.1663-1669 June 2006
- J2 **S. Nikolaou**, R. Bairavasubramanian, C. Lugo Jr., I. Carrasquillo, D.C. Thompson, G.E. Ponchak, J. Papapolymerou, and M. M. Tentzeris, "Pattern and Frequency Reconfigurable Annular Slot Antenna using PIN Diodes", IEEE Transactions on Antennas and Propagation, Vol.54, No.2, pp. 439-448, February 2006

- J1 J.-H. Lee, B. G. Perumana, **S. Nikolaou**, Y. Park, R. Mukhopadhyay, C.-H. Lee, K. Lim, J. Laskar and M. M. Tentzeris, "Advanced Integrated RF Front-End Solutions for Low-Power and UWB Wireless Systems," European Microwave Association Magazine, Vol.1, No.4, pp.272-280, December 2005.

Conference Papers

- C98 A. Nadeem, D. Chatzichristodoulou, A. Quddious, L. Vassiliou, P. Vryonides, and **S. Nikolaou**, "UHF IoT Humidity and Temperature Sensor for Smart Agriculture Applications Powered from an Energy Harvesting System," 2022 International Conference on Internet of Things and Intelligence Systems (IoTIS 2022), 2022.
- C97 A. Nadeem, D. Chatzichristodoulou, L. Vassiliou, P. Vryonides, and **S. Nikolaou**, "Energy Harvesting Supported Humidity Sensor for Agriculture Applications," 8th International Conference on Sensors Engineering and Electronics Instrumentation Advances (SEIA' 2022), 2022, pp. 161-165.
- C96 M. Shirazi, D. Chatzichristodoulou, A. Quddious, and **S. Nikolaou**, "Multifunctional Switchable Filter Using Shorted Coupled-Line Sections," 2022 52nd European Microwave Conference (EuMC), 2022, pp. 329-332.
- C95 M. Sumaid, A. G. Hassan, A. Subhan, N. Shoaib and **S. Nikolaou**, "Reconfigurable Reflective Polarization Converter MSF for mm Wave 5G Applications," 2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (AP-S/URSI), 2022, pp. 681-68.
- C94 H. Kiani A. Nadeem, D. Chatzichristodoulou, N. Shoaib, and **S. Nikolaou**, "Polarization Agility Using a Microfluidically Reconfigurable Metasurface," 2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (AP-S/URSI), 2022, pp. 685-686.
- C93 D. Chatzichristodoulou, A. Quddious, G. Paolini, D. Masotti, A. Costanzo, and **S. Nikolaou**, "UHF and ISM Band MIMO Antenna for an Energy-Autonomous SWIPT system," 2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (AP-S/URSI), 2022, pp. 191-192.
- C92 H. Kiani, A. Quddious, D. Chatzichristodoulou, N. Shoaib, D. Psychogiou, and **S. Nikolaou**, "Radiation Beam Steering Using a Microfluidically Reconfigurable Metasurface Superstrate," 2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (AP-S/URSI), 2022, pp. 1642-1643.
- C91 A. Nadeem, D. Chatzichristodoulou, A. Quddious, N. Shoaib, L. Vassiliou, and **S. Nikolaou**, "WPT Enabled Autonomous RFID Tag for Enhanced Range and Accuracy Localization," 2022 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (AP-S/URSI), 2022, pp. 1750-1751.
- C90 C. Huan, P. Kontou, **S. Nikolaou**, S. Ben-Smida and D. E. Anagnostou, "Five-Port Receiver for Vital Signs Detection," 2022 IEEE USNC-URSI Radio Science Meeting (Joint with AP-S Symposium), 2022, pp. 25-26.
- C89 D. Simpson, P. Vryonides, **S. Nikolaou** and D. Psychogiou, "Tunable Multi-Band Non-Reciprocal Bandpass Filters," 2022 IEEE/MTT-S International Microwave Symposium - IMS 2022, 2022, pp. 179-182.
- C88 E. Goudeli, C. Psomas, I. Krikidis, H. Kiani, D. Chatzichristodoulou and **S. Nikolaou**, "Detection Schemes for Integrated SWIPT Receivers with Non-Linear Energy Harvesting," 2022 IEEE 95th Vehicular Technology Conference: (VTC2022-Spring), 2022, pp. 1-5.
- C87 G. Paolini, A. Quddious, D. Chatzichristodoulou, D. Masotti, **S. Nikolaou** and A. Costanzo, "An Energy-Autonomous SWIPT RFID Tag for Communication in the 2.4 GHz ISM Band," 2022 3rd URSI Atlantic and Asia Pacific Radio Science Meeting (AT-AP-RASC), 2022, pp. 1-4.

- C86 H. Kiani, A. Quddious, D. Chatzichristodoulou, N. Shoaib, P. Vryonides and **S. Nikolaou**, "Improved Rectifier Efficiency Using Multi-Sine Input Signals," 2022 International Workshop on Antenna Technology (iWAT), 2022, pp. 29-32.
- C85 D. Chatzichristodoulou, S. Arain, C. Pavlou, L. Vassiliou, D. Psychogiou, and **S. Nikolaou**, "Spatiotemporal Modulated Three-Pole Non-Reciprocal Quasi-Elliptic Bandpass Filter," 2021 51st European Microwave Conference (EuMC), 2022, pp. 289-292.
- C84 S. Agarwal, D. Chadzichristodoulou, A. Quddious, D. Masotti, **S. Nikolaou** and A. Costanzo, "HIS Design for an Environment-Robust UHF/UWB Antenna with 3D-Printed Inclusions," 2021 51st European Microwave Conference (EuMC), 2022, pp. 817-820.
- C83 D. Chatzichristodoulou, G. Paolini, A. Quddious, D. Masotti, A. Costanzo, and **S. Nikolaou**, "Dual Frequency MIMO Rectenna with Two-Branch Rectifier and Common Power Storage Unit," 2022 16th European Conference on Antennas and Propagation (EuCAP), 2022, pp. 1-5.
- C82 H. Kiani, D. Chatzichristodoulou, A. Nadeem, A. Quddious, P. Vryonides and **S. Nikolaou**, "Microfluidically Frequency & Polarization Reconfigurable Patch Antennas," 2022 16th European Conference on Antennas and Propagation (EuCAP), 2022, pp. 1-5.
- C81 A. Nadeem, D. Chatzichristodoulou, H. Kiani, A. Quddious, P. Vryonides and **S. Nikolaou**, "Transmitter Considerations for 5G Wireless Powered Sensor Networks," 2022 16th European Conference on Antennas and Propagation (EuCAP), 2022, pp. 1-5.
- C80 M. Sumaid, N. Shoaib, F. Ahmad and **S. Nikolaou**, "A Polarization Insensitive Frequency Selective Bianisotropic Surface," 2022 IEEE Radio and Wireless Symposium (RWS), 2022.
- C79 J. Tahir, A. Nadeem, F. Hussain, A. Quddious, P. Vryonides and **S. Nikolaou**, "High-Efficiency Doherty Power Amplifier for S-band Communication Applications," 2021 1st International Conference on Microwave, Antennas & Circuits (ICMAC), 2021.
- C78 A. Nadeem, D. Chatzichristodoulou, P. Vryonides, N. Shoaib and **S. Nikolaou**, "Reconfigurable Beamforming Array for Far Field Wireless Power Transfer Applications," 2021 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (APS/URSI), 2021.
- C77 H. Kiani, A. Quddious, N. Shoaib, P. Vryonides and **S. Nikolaou**, "A Multi-functional Polarization Reconfigurable Metasurface for C-band Applications," 2021 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (APS/URSI), 2021.
- C76 S. Bibi, N. Shoaib, A. Quddious and **S. Nikolaou**, "A Wide-Band Metasurface for Asymmetric Microwave Transmission with Circular Polarization Conversion for Satellite Communications," 2021 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (APS/URSI), 2021.
- C75 S. Agarwal, D. Chadzichristodoulou, A. Quddious, D. Masotti, **S. Nikolaou** and A. Costanzo, "A Hybrid RFID/Localization Antenna with HIS and 3D-Printed Inclusions," 2021 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (APS/URSI), 2021.
- C74 A. Nadeem, D. Chatzichristodoulou, L. Vassiliou, N. Shoaib, P. Vryonides and **S. Nikolaou**, "Van Atta Arrays Exploited Towards Flying UAV Position Detection," 2021 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (APS/URSI), 2021.
- C73 D. Chatzichristodoulou, A. Quddious, L. Vassiliou, P. Vryonides and **S. Nikolaou**, "Wireless Charging of Ground-based Sensors from a UAV-carried Transmitter," 2021 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (APS/URSI), 2021.
- C72 M. Shirazi D. Chatzichristodoulou, A. Quddious, L. Vassiliou, P. Vryonides and **S. Nikolaou**, "Non-Reciprocal Bandpass Filter with Tunable Center Frequency and Constant Fractional Bandwidth," 2021 IEEE MTT-S International Microwave Filter Workshop (IMFW), 2021.

- C71 A. Saghir, D. Chatzichristodoulou, A. Quddious, **S. Nikolaou**, and V. Photos, "High-Selectivity Single- and Dual-Band BPF Using a Cross Shaped Coupled-Line Resonator," 2021 10th International Conference on Modern Circuits and Systems Technologies (MOCASST), 2021.
- C70 S. Muhammad Qasim Ali Shah, F. Ahmed, N. Shoaib, A. Quddious, **S. Nikolaou**, and Q. H. Abbasi, "An Angularly Stable Anisotropic Metasurface for Polarization Conversion Applications," 2021 15th European Conference on Antennas and Propagation (EuCAP), 2021.
- C69 D. Chatzichristodoulou, A. Quddious, N. Shoaib, P. Vryonides and **S. Nikolaou**, "An Additive Manufacturing Techniques for 5G IoT Antennas and Sensors," 2021 15th European Conference on Antennas and Propagation (EuCAP), 2021.
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