Curriculum Vitae
Stepan Lucyszyn

Nationality:	British
Date of Birth:	28th August 1965
Languages:	English *(native speaker)* Japanese *(lower intermediate)*
Titles of Present Posts:	*Professor of Millimetre-wave Systems* *Director of Centre for Terahertz Science and Engineering*
Work Address:	*Optical and Semiconductor Devices Group* Department of Electrical and Electronic Engineering Imperial College London
E-mail Addresses:	s.lucyszyn@imperial.ac.uk or stepan@ieee.org
Personal Web Page URL:	www.imperial.ac.uk/people/s.lucyszyn

Biography

Stepan Lucyszyn *PhD, DSc, FIEEE*, is Professor of Millimetre-wave Systems and Director of the *Centre for Terahertz Science and Engineering*, at Imperial College London.

After working in industry, as a satellite systems engineer for maritime and military communications, he spent 12 years researching microwave and millimetre-wave RFIC/MMICs. He co-edited a popular book on RFIC/MMICs, published by the IEE (now IET) in 2001. This book was translated into Chinese in 2007. For his contributions to RFIC/MMICs, he was made an *Adjunct Professor* at UESTC (Chengdu, China) in 2008.

In 2001, Prof. Lucyszyn started working on RF MEMS. In 2004, he published a review paper on RF MEMS technology, which won an IEE Premium Award in 2005. He edited the book entitled *Advanced RF MEMS*, published by Cambridge University Press in 2010. For his contributions to RF MEMS, he was made a *Guest Professor* at Tsinghua University (Beijing, China) in 2008.

Prof. Lucyszyn first starting working on millimetre-wave and terahertz technologies in 1992 and 1996, respectively. In 2010, he was awarded the DSc degree (higher doctorate) of Imperial College for his contributions to *Millimetre-wave and Terahertz Electronics*. More recently, he has concentrated his activities on emerging millimetre-wave photonic crystal and thermal infrared *'THz Torch'* technologies. In 2012, he co-founded the cross-disciplinary *Centre for Terahertz Science and Engineering* at Imperial College London. Since 2014, Prof. Lucyszyn has served as a founding member of the Steering Group for the UK's EPSRC Terahertz Network (TeraNet) and in 2016 joined the IEEE Technical Committee for Terahertz Technology and Applications (MTT-4).

Prof. Lucyszyn has (co-)authored approximately 200 papers and 12 book chapters in applied physics and engineering, and delivered many Plenary and Keynote presentations at international conferences. In addition, he has served as a member of TPCs and prize committees for various international conferences. Over the past few years Prof. Lucyszyn has evaluated numerous international research grant proposals and sat on funding panels within Europe and North America.

Prof. Lucyszyn served as *Editor-in-Chief* for the *International Journal of Electronics* (TandF, 2002-05), *Associate Editor* for the *Journal of Microelectromechanical Systems* (IEEE/ASME, 2005-09) and sat on the Editorial Boards for the international journals *Microwaves, Antennas & Propagation* (IET, 2007-14) and *Wireless Power Transfer* (CUP, since 2014-16). Prof. Lucyszyn was a member of both the EuMA General Assembly, representing Group 4 (UK, Ireland, Gibraltar, Malta), and EuMA Steering Committee (2010-12). He was the *Chairman* of the *41st European Microwave Conference*, held in Manchester (UK, 2011) and Co-chaired the *11th European Microwave Integrated Circuits Conference*, held in London (UK, 2016). He was an *IEEE Distinguished Microwave Lecturer (DML)* for 2010-12, *Emeritus DML* for 2013 and appointed a *EuMA European Microwave Lecturer (EML)* for 2013-present. Prof. Lucyszyn is Fellow of the *Institute of Physics* (UK, 2005), *Institution of Engineering and Technology* (UK, 2005), *The Electromagnetics Academy* (USA, 2008) and *Institute of Electrical and Electronic Engineers* (USA, 2014). In Apr. 2014, he co-founded the Imperial College London spin-out company Drayson Wireless Ltd.

General

Academic Qualifications

2010 *D.Sc. in Millimetre-wave and Terahertz Electronics*
Imperial College London
1992 *Ph.D. in Electronic Engineering*
University of London (King's College)
1988 *M.Sc. in Satellite Communication Engineering*
University of Surrey
1987 *B.Sc.(Hons) in Electronic & Communication Engineering*
Polytechnic of North London

Professional Employment

2016 *Professor of Millimetre-wave Systems*, Imperial College London
2006-16 *Reader (Associate Professor) in Millimetre-wave Electronics*, Imperial College London
2001-06 *Senior Lecturer*, Imperial College London

2000-01 *Senior Lecturer*, University of Surrey
1995-00 *Lecturer in RF Electronics*, University of Surrey

1992-95 *Post-Doctoral Research Fellow*, University of London (King's College)
• Advanced Microwave Signal Processing Techniques for Integrated Circuits

1989 *Communication Systems Engineer*, Vega Space Systems Engineering Ltd
• 6 month subcontract for UK Ministry of Defence SKYNET-4 projects
• 3 month subcontract for INMARSAT-2 project

1988 *Digital Systems Research Engineer*, Alcatel Espace (Toulouse, **France**)
• 3-month industrial placement for M.Sc. degree

Fellowships, Prizes and Awards

2017 *Best Paper Award (AWR's Steve Evans-Pughe Prize)*, ARMMS RF & Microwave Society Conference
2014 *Fellow of the IEEE*, Institute of Electrical and Electronic Engineers, **USA**
2013 *Runner-up Prize*, ARMMS RF & Microwave Society Conference
2013 *IEEE UK&RI Presentation Award*, R2i2 Electronics Conference
2013 *Best Poster Prize*, Energy Harvesting 2013
2013-16 *EuMA European Microwave Lecturer*
2013 *IEEE Emeritus Distinguished Microwave Lecturer*
2010-12 *IEEE Distinguished Microwave Lecturer*
2008 Appointed *Adjunct Professor* at UESTC, Chengdu, **China**
2008-10 Appointed *Guest Professor* at the Micro and Nano Technology Research Center, Tsinghua University, Beijing, **China**
2008 *Fellow of the EMA*, The Electromagnetics Academy, **USA**
2005 *Fellow of the IoP*, Institute of Physics
2005 *Fellow of the IEE*, Institution of Electrical Engineers
2005 Awarded the *IEE Science, Measurement and Technology Premium* Prize
2004 Elected to *Senior Member of the IEEE*, **USA**
1999 Awarded *Tan Chin Tuan Exchange Fellowship in Engineering*, Nanyang Technological University (NTU), **Singapore**
1994 *Registered Chartered Engineer*, UK Engineering Council
1987 Awarded *The Electronic & Communications Engineering Departmental Prize*, Polytechnic of North London

Professional Activities

Professional and Learned Society Committees

2016-present IEEE MTT-S AdCom's Technical Committee for Terahertz Technology and Applications (MTT-4) (**USA**)
2014-present EPSRC Terahertz Network (TeraNet) Steering Group
2007-16 IoP Fellowship Applications Panel Member and past Chair (2008)
2013-14 EU Management Committee for COST Action IC1301 (WiPE), representing the UK (**Brussels**)
2011-14 IEEE MTT-S AdCom's Image and Visibility Committee (**USA**)
2011-14 IET RF & Microwave Technology Network Executive Team
2000-14 IEEE MTT/ED/AP/LEO Technical Societies Joint Chapter's AdCom for the United Kingdom & **Republic of Ireland** (UKRI) Section of Region 8 Member and Treasurer
2010-12 EuMA General Assembly, representing Group 4 (UK, **Ireland, Gibraltar, Malta**)
2010-12 EuMA Steering Committee
2005, 11 IEEE Senior Member Review Panel
2004-07 EU FP6-507352 AMICOM Network of Excellence Summer Schools (**Brussels**) Steering Committee Chair
1998-00 IEE Professional Group Committee E12 Member and Editor of the E12 Newsletter

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International Journal Publishing Activities

2014-16 Editorial Board for *Wireless Power Transfer*, Cambridge University Press
2012-present Editorial Review Board for *IEEE Transactions on Terahertz Science and Technology*
2012-present Editorial Board for *Radiophysics and Electronics*,
Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine
2007-14 Editorial Board *IET Microwaves, Antennas & Propagation*
2012 Guest Editor *EuMA International Journal of Microwave and Wireless Technologies*,
Cambridge University Press, Special Issue on EuMW 2011
2007-09 Technical Committee *PIERS Online*
2005-09 Associate Editor *IEEE/ASME Journal of Microelectromechanical Systems*
2002-05 Editor-in-Chief *Taylor & Francis International Journal of Electronics*
2001-03, 1995-97 Editorial Review Board for *IEEE Transactions on Microwave Theory and Techniques*

Selected Conference Activities

2016 Co-chair, *11th European Microwave Integrated Circuits Conference* (*EuMIC*), London
2015 Co-chair, EPSRC-TERANET *Workshop on Biological and Medical Applications of THz Technology*, London
2013 Co-chair, *27th ARMMS RF & Microwave Society Conference*, Wyboston Lakes
2011 Chair, *41st European Microwave Conference (EuMC)*, Manchester
2002 Chair, *7th IEEE High Frequency Postgraduate Student Colloquium (HFPSC)*, London

International Conference Technical Program Committees (TPCs)

IEEE International Conference on Micro Electro Mechanical Systems (MEMS 2017), Las Vegas, **USA**
Asia-Pacific Microwave Conference (APMC 2016), New Delhi, **India**
European Microwave Conference (EuMC):

2016 London
2015 Paris, **France**
2012 Amsterdam, **The Netherlands**
2011 Manchester
2010 Paris, **France**
2009 Rome, **Italy**
2008 Amsterdam, **The Netherlands**

IEEE Wireless Power Transfer Conference (WPTC 2015), **USA**
IEEE Mediterranean Microwave Symposium (MMS 2015), **Italy**
Mediterranean Microwave Symposium (MMS):

2015 Lecce, **Italy**
2010 **Cyprus**

Progress in Electromagnetics Research Symposium (PIERS)

2012 Kuala Lumpur, **Malaysia**
2011 Suzhou, **China**
2010 Cambridge, **USA**
2010 Xi'an, **China**
2009 Beijing, **China**
2008 Cambridge, **USA**
2008 Hangzhou, **China**
2007 Prague, **Czech Republic**
2007 Beijing, **China**

IEEE MTT-S International Microwave Workshop Series (IMWS 2011) on Millimeter Wave Integration Technologies, **Spain**

Learned Society and International Conference Invited Lectures

Non-EML/DML Invited International Conference/Workshop Presentations (* Unpublished)

2017 *IEEE IMS Workshop*, **USA**

2016 *ESA/ESTEC*, **The Netherlands ***
EuMC
URSI AP-RASC, **Korea**
IMWS-AMP, **China**

2015 *M/TAW*, Keynote, **China ***
APMC, **China**
IMOC, **Brazil ***
ICCP, Keynote, **China ***
GSMM, **Canada**
AnalytiX, **China**

2014 *IMWS-Bio*
IEEE AP/MTT University of Texas at Austin, **USA ***

2013 *APMC*, **Korea**
NATO Workshop, **Ukraine**
EuCAP, two papers, **Sweden**

2012 *IEEE IMS Workshop*, **Canada**
IWWETH, **Belgium**

2011 *APMC*, **Australia**
IWWETH, **The Netherlands**
GDMS, Plenary, **Japan** *

2010 *APMC*, **Japan**
EuMC, **France**
C-E WMTT, **China**
IEEE IMS, **USA**

2009 *ICMEMS*, Plenary, **India**

2008 *APMC*, **China**
IUMRS-ICA, **Japan**
Int. Conf. of CSMNT, Plenary, **China** *
Int. Workshop on Metamaterials, **Singapore** *

2007 *APMC*, **Thailand**
TARGET Workshop, **Italy** *

2006 *MEMSWAVE Workshop*, Plenary, **Italy** *
DTI/FO UK-Korea Nanotechnology Forum, **Korea** *

2005 *MWE*, **Japan**
NATO Workshop, **Italy** *
CAS, Plenary, **Romania**
ICMAT and IUMRS-ICAM, two papers, **Singapore**

2004 *APMC*, **India**

2003 *IEEE/IEE MIDAS Workshop*

2002 *Wireless Design Conference*, Keynote

1993 *Eurochip Workshop on VLSI Design Training*, **Spain**

EuMA European Microwave Lecturer (EML): ***An Engineering Approach Towards Creating Ubiquitous THz Applications***

2017 *IET Lecture*
IEEE Seminar, NUS, **Singapore**

2016 *IMWS-AMP*, Keynote, **China**
IET Colloquium, Keynote

2015 *IMOC*, Plenary, **Brazil**
ICCT, Keynote, **China**
GeMiC, Keynote, **Germany**
University College London

2013 *ARMMS Conference*
MSMW, Plenary, **Ukraine**

IEEE MTT-S *Distinguished Microwave Lecturer* (DML): *Commercial Applications for RF MEMS*

2013 *ENSEA*, **France**
Kasetsart University, **Thailand**

(Emeritus) *Chinese University of Hong Kong*, **China**

2012 *ENSEA*, **France**
ESIEE, **France**
APMC, Plenary, **Taiwan**
City University, Hong Kong, **China**
Clastech2012, **USA**
Seoul National University, **Korea**
Sogan (Korea) University, **Korea**
University of Pavia, **Italy**
Warsaw University of Technology, **Poland**
National University of Singapore, **Singapore**
MMWCST, Keynote, **China**
Chiang Mai University, **Thailand**
University of Malaga, **Spain**

2011 *RFM*, Keynote, **Malaysia**
*A*Star*, **Singapore**
APMC, **Australia**
YSC, Keynote, **Ukraine**
IMWS and RFID-TA, Keynote, **Spain**
Tohoku University, **Japan**
ARMMS Conference
Chulalongkorn University, **Thailand**

2010 *IEICE Microwave Workshop*, **Japan**
Applications Centre ISRO Ahmedabad, **India**
COST IC0803 Meeting, **Switzerland**
EuMW, **France**
University of Leeds
UNAMems, **Mexico**
SPJW, Keynote, **Japan**

External University Activities

National and International Research Project Evaluator: Panel Memberships (PM) and Proposal Reviews (PR)

2017	**Israeli** Ministry of Science, Technology and Space, PR
2017	Canada Foundation for Innovation, Toronto, **Canada**, PM
2016	UK India Education and Research Initiative (UKIERI), British Council, PR
2016	**Swedish** Knowledge Foundation proposal on behalf of the Mid Sweden University, PR
2016	**Portuguese** Instituto de Telecomunicacoes, PR
2013, 16-17	**Hong Kong** Research Grant Council (RGC), PR
2012-15	**European Commission** – Reviewer for FP7-ICT Project 257964 NANOTEC, Brussels, **Belgium**
	€10M Large-scale Integrating Project, with 17 partners over 47 months, PM
2013, 15	**Italian** Ministry for Education, University and Research (MIUR), PR and rapporteur
2011, 15	**Austrian** Science Fund (FWF), PR
2012	**Swiss** National Science Foundation (SNSF), PR
2011	**Greek** Ministry of Education - THALIS Phase II Research Program, PR
2010, 17	**Qatar** Foundation's Qatar National Research Fund (QNRF), PR
2007	**European Commission** – Seventh Framework Programme, Brussels, **Belgium,** PM and rapporteur
2007	**Irish** Research Council for Science, Engineering and Technology (IRCSET), Dublin, **Ireland**, PM
1998, 2005	EPSRC Responsive Mode Grant Assessment Panels, PM
1997-present	EPSRC Peer Review College

University/Laboratory Examiner/Reviewer/Assessor

2017	A*STAR Review of Nomination for the President's Technology Award, **Singapore**
2016	Foundation for Research and Technology (FORTH), Assessor for promotion**, Greece**
2016	University of Sharjah, Assessor for promotion, **UAE**
2015, 16	King Fahd University of Petroleum & Minerals (KFUPM), Research grant evaluation, **Saudi Arabia**
2015	Cardiff University, School of Physics and Astronomy
	Reviewer of proposals for new MSc in Physics and MSc in Astrophysics
2013	Research Institute of Electrical Communication, Tohoku University, Sendai, **Japan**
	Reviewer for the Advanced Wireless Information Technology Laboratory, Broadband Engineering Division
2009-13	University of Leeds, School of Electronic and Electrical Engineering
	Examiner for BEng and MEng degree programmes
2009-10	University of Leeds, School of Electronic and Electrical Engineering
	Examiner for MSc in Nanotechnology and Advanced Electronic Devices
2007	Nanyang Technological University, School of Electrical and Electronic Engineering, **Singapore**
	Assessor for Tenure
2007	Nanyang Technological University, School of Mechanical and Aerospace Engineering, **Singapore**
	Reviewer for new appointments

Research Student Examiner

2017	Robin Nag	PhD	University of Kent
2017	Yang Zeng	PhD	Queen Mary University of London
2015	Sam Rowe	PhD	Cardiff University
2015	Sarah Louise Heywood	PhD	University of Nottingham
2015	Andrew J. Farrall	PhD	University of Kent
2014	Paras Chawala	PhD	Thapar University, **India**
2014	Huhammad Yameen Sandhu	PhD	University of Leeds
2012	Charalampos Fragkidakis	PhD	Cranfield University
2010	Ruo Feng Xu	PhD	University of Kent
2010	Jaibir Sharma	PhD	IIT Madras, **India**
2009	Peng W. Wong	PhD	University of Leeds
2008	Themis Prodromakis	PhD	Imperial College London
2008	Kwok Wai Lau	PhD	CityUHK, **China**
2008	Carlos Law	MPhil	CUHK, **China**
2008	Nandi Logan	PhD	University of Bradford
2007	Lai B. Lok	PhD	University of Leeds
2005	Chong Chon Ng	MPhil	CUHK, **China**
2005	Novak E. S. Farrington	PhD	University of Leeds
2005	Mi Lin	MPhil	University of Cambridge
2004	Danhong Shi	MEng by Research	NTU, **Singapore**
2001	Aik C. Ng	MEng by Research	NTU, **Singapore**
2000	Kian S. Ang	PhD	University of Surrey

Internal Research Supervision

Research Fellows

Principal (P) or co-(C) supervisor for the following full-time researchers:

2017	Dr Enrique Marquez-Segura (P)	3-month sabbatical from University of Malaga, **Spain**
2015-16	Dr Xu Zhang (P)	1-year sabbatical from Nankai University, **China**
2015-16	Dr Fangjing Hu (P)	9 months: eFUTURES and IC-CiC
2015-16	Dr Zhengwei Wang (P)	1-year secondment from Sichuan Jiuzhou Electric Group Co., **China**
2014-17	William J. Otter (P)	3 years: EP/M001121/1
2014-17	Dr Munir M. Ahmed (P)	3 years P/T: EP/M001121/1
2013-14	William J. Otter (P)	6 months: EESE_P47587
2013-14	Christopher Kwan (C)	6 months: EESC_P47751
2013-14	Xiaoxin Liang (P)	1-year sabbatical from Chinese Academy of Sciences, **China**
2012-13	Manuel Pinuela (P)	6 months: EESE_P43676
2012-13	James Lawson (C)	6 months: EESC_P43681
2012	Juan José Sanchez-Martinez (P)	3-month sabbatical from University of Malaga, **Spain**
2012-13	Professor Marcos T. de Melo (P)	1-year sabbatical from Federal University of Pernambuco, **Brazil**
2011-12	Manuel Pinuela (P)	6 months: EESE_P39078
2010	Dr Yun Zhou (P)	EPSRC: EP/E063500/1
2004-06	Dr Michael P. Larsson (P)	EPSRC: GR/S97019/01
2004-06	Dr Hong Wen Jiang (P)	EPSRC: GR/S57013/01
2004-05	Kenichi Miyaguchi (P)	1-year secondment from Mitsubishi Electric, **Japan**
2004	Professor Xiaoxia Zhang (P)	6-month sabbatical from UESTC, **China**
2003	Dr Paul R. Young (C)	EPSRC: GR/N06366/01
1998-01	Dr Roy D. Forrest (C)	EPSRC: GR/M01418
1997-02	Christos E. Chrisostomidis (P)	EPSRC: GR/L37595

PhD Students

2016- Hang Ren

2016- Attique Dawood

2013- Jingye Sun

2013- Jonathan Hazell

2015 Mario D'auria

"Low Cost Fabrication Processing for Microwave and Millimetre-Wave Passive Components"

2015 William J. Otter

"Technologies for Terahertz Frequency Sensing"

2014 Fangjing Hu **(Winner of the Eryl Cadwaladr Davies Prize for best Doctoral Thesis during 2014/15)**

"'THz Torch' Technology: Secure Thermal Infrared Wireless Communications Using Engineered Blackbody Radiation"

2014 Elpida Episkopou

"Reconfigurable Optically-controlled Waveguide for Terahertz Applications"

2014 Stergios Papantonis

"Investigation of Passive Electromagnetic Components with Metamaterials"

2013 Manuel Pinuela

"Ambient Energy Harvesting and Efficient DC-Load Inductive Power Transfer"

2013 Xuguo Huang

"Bulk Micromachined Trench-coupler Based Microwave Circuits"

2010 Kai Herbertz

"Design, Production and Characterisation of EBG Filters"

2009 Yun Zhou

"*Reconfigurable Terahertz Integrated Architecture (RETINA)"*

2008 Joo-Young Choi

"*RF MEMS Switches for High Power Applications"*

2006 Jun Su Lee

"*Bulk Micromachined Electrothermal Microactuator using the Hydraulic Force of a Phase Change Material"*

2005 Suneat Pranonsatit

"*Enabling Fabrication Technologies for Advanced RF MEMS"*

2003 Ioannis D. Stamatopoulos

"*Analytical Techniques for Modelling the Laminated Waveguide"*

2003 Christos E. Chrisostomidis

"*Chained Function Filters – Theory and Applications"*

2001 Douglas S. McPherson

"*Circuits and Systems for 77 GHz MMIC Software Radar"*

2000 Yuanxing Zheng

"*Microsatellite Radar Altimeter Payload Design for Global Sea State Monitoring"*

Publications

Refereed Journal Papers

1. W. J. Otter and S. Lucyszyn, "Hybrid 3-D-printing technology for tunable THz applications", *Proceedings of IEEE*, Special Issue on Additive Manufacturing of Radio-Frequency Components, vol. 105, no. 4, pp. 756-767, Apr. 2017 (Invited)
2. W. J. Otter and S. Lucyszyn, "Printing: the future of THz", *IET Electronics Letters*, vol. 53, no. 7, p. 433, Mar. 2017 (Invited Feature Article)
3. W. J. Otter, N. M. Ridler, H. Yasukochi, K. Soeda, K. Konishi, J. Yumoto, M. Kuwata-Gonokami and S. Lucyszyn, "3D printed 1.1 THz waveguides," *IET Electronics Letters*, vol. 53, no. 7, pp. 471-473, Mar. 2017
4. S. M. Hanham, M. M. Ahmad, S. Lucyszyn and N. Klein, "LED-switchable high-Q packaged THz microbeam resonators," *IEEE Trans. Terahertz Sci. and Techn*., vol. 7, no. 2, pp. 199-208, Mar. 2017
5. A. A. Muller, E. Sanabria-Codesal, A. Moldoveanu, V. Asavei, and S. Lucyszyn, "Extended capabilities of the 3-D Smith chart with group delay and resonator quality factor", *IEEE Transactions on Microwave Theory and Techniques*, vol. 65, no. 1, pp. 10-19, Jan. 2017
6. S. S. Dhillon, M. S. Vitiello, E. H. Linfield, A. G. Davies, M. C. Hoffmann, J. Booske, C. Paoloni, M. Gensch, P. Weightman, G. P. Williams, E. Castro-Camus, D. R. S. Cumming, F. Simoens, I. Escorcia-Carranza, J. Grant, S. Lucyszyn, M. Kuwata-Gonokami, K. Konishi, M. Koch, C. A. Schmuttenmaer, T. L. Cocker, R. Huber, A. G. Markelz, Z. D. Taylor, V. P. Wallace, J. A. Zeitler, J. Sibik, T. M. Korter, B. Ellison, S. Rea, P. Goldsmith, K. B. Cooper, R. Appleby, D. Pardo, P. G. Huggard, V. Krozer, H. Shams, M. Fice, C. Renaud, A. Seeds, A. Stoehr, M. Naftaly, N. Ridler, R. Clarke, J. Cunningham, and M. Johnston, "The 2017 terahertz science and technology roadmap", *IoP Journal of Physics D: Applied Physics (JPhysD)*, vol. 50, no. 4, 043001, pp. 1-49, Jan. 2017 (Invited)
7. A. A. Muller, E. Sanabria-Codesal and S. Lucyszyn, "Computational cost reduction for N+2 order coupling matrix synthesis based on Desnanot-Jacobi Identity", *IEEE Access*, vol. 4, pp. 10042-10050, Nov. 2016
8. J. Sun, F. Hu and S. Lucyszyn, "Predicting atmospheric attenuation under pristine conditions between 0.1 and 100 THz", *IEEE Access*, vol. 4, pp. 9377-9399, Nov. 2016
9. B. T. W. Gillatt, M. D'Auria, W. J. Otter, N. M. Ridler and S. Lucyszyn, "3-D printed variable phase shifter", *IEEE Micro. and Wireless Comp. Lett.*, vol. 26, no.10, pp. 822-824, Oct. 2016
10. F. Hu and S. Lucyszyn, "Advances in front-end enabling technologies for thermal infrared 'THz Torch' wireless communications", *Journal of Infrared, Millimeter, and Terahertz Waves*, vol. 37, no. 9, pp. 881-893, May 2016
11. A. A. Muller and S. Lucyszyn, "Properties of purely reactive Foster and non-Foster passive networks", *IET Electronics Letter*s, vol. 51, no. 23, pp. 1882-1884, Nov. 2015
12. M. D'Auria, W. J. Otter, J. Hazell, B. T. W. Gillatt, C. Long-Collins, N. M. Ridler and S. Lucyszyn, "3-D printed metal-pipe rectangular waveguides", *IEEE Transactions on Components, Packaging and Manufacturing Technology*, vol. 5, no. 9, pp. 1339-1349, Sep. 2015
13. S. M. Hanham, C. Watts, W. J. Otter, S. Lucyszyn and N. Klein, "Dielectric measurements of nanoliter liquids with a photonic crystal resonator at terahertz frequencies", *Applied Physics Letters*, vol. 107, 032903, Jul. 2015
14. S. Papantonis and S. Lucyszyn, "Lossy spherical cavity resonators for stress-testing arbitrary 3D Eigenmode solvers", *PIER Journal*, vol. 151, pp. 151-167, May 2015
15. F. Hu, J. Sun, H. E. Brindley, X. Liang and S. Lucyszyn, "Systems analysis for thermal infrared 'THz Torch' applications", *Journal of Infrared, Millimeter, and Terahertz Waves*, Springer, vol. 36, no. 5, pp. 474-495, May 2015
16. F. Hu and S. Lucyszyn, "Modelling miniature incandescent light bulbs for thermal infrared 'THz Torch' applications", *Journal of Infrared, Millimeter, and Terahertz Waves*, Springer, vol. 36, no. 4, pp. 350-367, Apr. 2015
17. J. J. Sanchez-Martinez, E. Marquez-Segura and S. Lucyszyn, "Synthesis and design of high-selectivity wideband quasi-elliptic bandpass filters using multiconductor transmission lines", *IEEE Transactions on Microwave Theory and Techniques*, vol. 63, no. 1, pp. 198-208, Jan. 2015
18. A. A. Muller, E. Sanabria-Codesal, A. Moldoveanu, V. Asavei, P. Soto, V. E. Boria and S. Lucyszyn, "Apollonius unilateral transducer constant power gain circles on 3D Smith charts", *IET Electronics Letters*, vol. 50, no. 21. pp. 1531-1533, Oct. 2014
19. S. Papantonis, N. M. Ridler, A. Wilson and S. Lucyszyn, "Reconfigurable waveguide for vector network analyzer verification", *IEEE Transactions on Microwave Theory and Techniques*, vol. 62, no. 10, pp. 2415-2422, Oct. 2014
20. W. J. Otter, S. M. Hanham, N. M. Ridler, G. Marino, N. Klein and S. Lucyszyn, "100 GHz ultra-high Q-factor photonic crystal resonators", *Sensors and Actuators A: Physical*, Elsevier, vol. 217, pp. 151-159, Sep. 2014
21. X. Liang, F. Hu, Y. Yan and S. Lucyszyn, "Secure thermal infrared communications using engineered blackbody radiation", *Scientific Reports*, Nature Publishing Group, Sci. Rep. 4, 5245, Jun. 2014
22. J. J. Sanchez-Martinez, E. Marquez-Segura and S. Lucyszyn, "Design of compact wideband bandpass filters based on multiconductor transmission lines with interconnected alternate lines", *IEEE Microwave and Wireless Components Letters*, vol. 24, no. 7, pp. 454-456, Jun. 2014
23. N. B. Carvalho, A. Georgiadis, A. Costanzo, H. Rogier, A. Collado, J. A. García, S. Lucyszyn, P. Mezzanotte, J. Kracek, D. Masotti, A. J. Soares Boaventura, M. N. Ruíz Lavin, M. Pinuela, D. C. Yates, P. D. Mitcheson, M. Mazanek and V. Pankrac, "Wireless power transmission: R&D activities within Europe", *IEEE Transactions on Microwave Theory and Techniques*, vol. 62. no. 4, pp. 1031-1045, Apr. 2014
24. S. Papantonis, N. M. Ridler and S. Lucyszyn, "Rectangular waveguide enabling technology using holey surfaces and wire media metamaterials", *Sensors and Actuators A: Physical*, Elsevier, vol. 209, pp. 1-8, Mar. 2014

25. S. Papantonis, S. Lucyszyn and E. Shamonina, "Dispersion effects in Fakir's bed of nails metamaterial waveguides", *AIP Journal of Applied Physics*, vol. 115, no. 5, Feb. 2014
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