

Publications for Project 811232

Publications

Type	Title	Authors	Title of the Journal/Proc./Book	Number, date or freq. of the Journal/Proc./Book	DOI	Repository Link
Article in Journal	W-band TE102-mode filter with doubly loaded E-plane and H-plane irises	Chad Bartlett, Michael Höft	Electronics Letters	Vol. 57 (2021)	10.1049/ell2.12003	https://macau.uni-kiel.de/receive/macau_mods_00002589
Article in Journal	3-D-Printed Compact Bandpass Filters Based on Conical Posts	Enrique Lopez-Oliver, Cristiano Tomassoni, Lorenzo Silvestri, Maurizio Bozzi, Luca Perregini, Stefania Marconi, Gianluca Alaimo, Ferdinando Auricchio	IEEE Transactions on Microwave Theory and Techniques	69/1	10.1109/tmtt.2020.3035168	https://zenodo.org/record/6577316#_yo8WE6jMidU
Publication in Conference proceedings/Workshop	A/K/Ka-Band Substrate Integrated Coaxial Line Power Divider for 4-input and 16-output Beamforming Multi-Layer Feeding Network	Yifang Wei, Christian Arnold, Jiasheng Hong	2020 IEEE Asia-Pacific Microwave Conference (APMC)		10.1109/apmc47863.2020.9331438	https://pure.nw.ac.uk/ws/portalfiles/portal/43905646/Paper_APMC_accepted_manuscript.pdf
Publication in Conference proceedings/Workshop	3-D Printed Bandpass Filter Using Conical Posts Interlaced Vertically	Enrique Lopez-Oliver, Cristiano Tomassoni, Lorenzo Silvestri, Maurizio Bozzi, Luca Perregini, Stefania Marconi, Gianluca Alaimo, Ferdinando Auricchio	2020 IEEE/MTT-S International Microwave Symposium (IMS)		10.1109/ims30576.2020.9223965	https://zenodo.org/record/6577360#_yo8WMKjMidU
Article in Journal	Robust Tolerance Design of Bandpass Filter with Improved Frequency Response for Q-Band Satellite Applications	A. Sami, F. Teberio, L. Miranda, I. Arnedo, P. Martin-Iglesias, D. Benito, T. Lopetegui, M. A. G. Laso, I. Arregui	IEEE Microwave and Wireless Components Letters		10.1109/lmwc.2021.3090218	https://academica-e.unavarra.es/handle/2454/40009
Article in Journal	Dual-mode dual-band bandpass filter design utilising cylindrical TM-mode cavities	Chad Bartlett, Michael Höft	Electronics Letters	57/8	10.1049/ell2.12127	https://macau.uni-kiel.de/receive/macau_mods_00002645
Article in Journal	3D-Printing and High-Precision Milling of W-Band Filter Components with Admittance Inverter Sequences	Chad Bartlett, Jens Bornemann, Michael Höft	IEEE transactions on Components, Packaging and Manufacturing Technology		10.1109/tcpmt.2021.3116220	https://macau.uni-kiel.de/receive/macau_mods_00002802
Publication in Conference proceedings/Workshop	Very High Q-Factor Bandpass Filter Using Additive Manufacturing	Lopez-Oliver, Enrique; Tomassoni, Cristiano; Addamo, Giuseppe; Calignano, Flaviana; Lumia, Mauro; Peverini, Oscar; Vironi, Giuseppe	2021 IEEE MTT-S International Microwave Filter Workshop (IMFW)		10.1109/imfw49589.2021.9642294	https://zenodo.org/record/6577122#_yo8VsKjMidU
Article in Journal	3-D-Printed Dual-Mode Filter Using an Ellipsoidal Cavity With Asymmetric Responses	Lopez-Oliver, Enrique (Lopez-Oliver, Enrique) ; Tomassoni, Cristiano (Tomassoni, Cristiano)	IEEE MICROWAVE AND WIRELESS COMPONENTS LETTERS	Volume 31 issue 6	10.1109/lmwc.2021.3064244	https://zenodo.org/record/6577267#_yo8V7qjMidU
Publication in Conference proceedings/Workshop	Spurious suppression through the control of their couplings: application to TM cavity filters	Abdur Rehman University of Perugia, Perugia, Italy ; Cristiano Tomassoni ; Rehman, Abdul; Tomassoni, Cristiano; Silvestri, Lorenzo; Bozzi, Maurizio; Delmonte, Nicolo; Perregini, Luca	2021 IEEE MTT-S International Microwave Symposium (IMS)		10.1109/ims19712.2021.9574861	https://zenodo.org/record/6577510#_yo8V7GajMidU
Publication in Conference proceedings/Workshop	Self Cancellation of Higher Order Mode Spurious Frequencies in SIW Filters	Rehman, Abdul; Tomassoni, Cristiano; Silvestri, Lorenzo; Bozzi, Maurizio; Delmonte, Nicolo; Perregini, Luca	2021 IEEE MTT-S International Microwave Filter Workshop (IMFW)		10.1109/imfw49589.2021.9642346	https://zenodo.org/record/6577414#_yo8V76jMidU
Other	Interview - The upcoming challenges posed by fields such as automotive radar, constellation communication, and deepspace exploration will require bold new methods	Chad Bartlett -	Electronic letters	Vol.57	10.1049/ell2.12137	
Article in Journal	Structured-Glass Waveguide Technology for High-Performance Millimetre-Wave Components and Systems	Bartlett, Chad Daniel; Malavé, Antonio; Letz, Martin; Höft, Michael	IEEE Journal of Microwaves	Volume 2 issue2	10.1109/jmw.2022.3155793	https://macau.uni-kiel.de/receive/macau_mods_00002654
Publication in Conference proceedings/Workshop	K/Ka-Band MIMO Beamforming Phased Antenna Array with Multilayer Substrate Integrated Coaxial Line Feeding Network	Yifang Wei, Christian Arnold and Jiasheng Hong	2022 Microwave Mediterranean Symposium (MMS)		10.1109/mms55062.2022.9825620	https://pure.hw.ac.uk/ws/portalfiles/portal/55533656/MMS2022_paper_29_AAM.pdf
Article in Journal	Integrating multiple stubs in stepped-impedance filter aiming for high selectivity	Abdul Sami,Miguel Angel Gomez Laso, Txema Lopetegui, Israel Arnedo, Ibai Calero, Fernando Teberio, Petronilo Martin Iglesias, David Benito, Ivan Arregui	Electronics Letters		10.1049/ell2.12517	https://academica-e.unavarra.es/handle/2454/43021
Article in Journal	A/K/Ka-Band Reconfigurable Substrate Integrated Coaxial Line to Waveguide Transition Technology	Yifang Wei, Christian Arnold, Jiasheng Hong	IEEE Access	June 22	10.1109/access.2022.3184020	https://pure.nw.ac.uk/ws/portalfiles/portal/54950778/A_K_Ka_Band_Reconfigurable_Substrate_Integrated_Coaxial_Line_to_Waveguide_Transition_Technology.pdf
Publication in Conference proceedings/Workshop	Fully Inline and Symmetric Dual-Mode Dual-Band Bandpass Filters for Millimetre-wave Applications	Bartlett, Chad Daniel; Höft, Michael	2021 IEEE MTT-S International Microwave Filter Workshop (IMFW)		10.1109/imfw49589.2021.9642344	https://macau.uni-kiel.de/receive/macau_mods_00002816
Publication in Conference proceedings/Workshop	X-Band 3D-Printed Metal-Insert Twist-Component for Bandpass Filter Applications	Chad Bartlett Daniel Miek Fyryn Kamrath Daniel Bruhn Michael Höft	2021 IEEE MTT-S International Microwave Filter Workshop (IMFW)		10.1109/imfw49589.2021.9642300	https://macau.uni-kiel.de/receive/macau_mods_00002800
Publication in Conference proceedings/Workshop	Reconfigurable Wideband Linear-Polarized and Dual Left/Right-Hand Circularly-Polarized Waveguide Antennas for Beamforming Antenna array	Yifang Wei, Christian Arnold, Jiasheng Hong, Jiayu Rao	16th European Conference on Antennas and Propagation (EuCAP 2022)		10.23919/eucap53622.2022.9769328	https://pure.nw.ac.uk/ws/portalfiles/portal/54235816/Reconfigurable_Wideband_Linear_Polarized_and_Dual_Left_Right_Hand_Circularly_Polarized_Waveguide_Antennas_for_Beamforming_Antenna_array.pdf
Publication in Conference proceedings/Workshop	Microfluidic-Based Ultra-Wide Tuning Technique for TM010 Mode Dielectric Resonators and Filters	Abdulrahman Widaa Chair of Microwave Engineering, Kiel University, Kiel, Germany ; Michael Höft	2021 IEEE MTT-S International Microwave Filter Workshop (IMFW)		10.1109/imfw49589.2021.9642347	https://macau.uni-kiel.de/receive/macau_mods_00002896

Publication in Conference proceedings/Workshop	A novel Re-entrant Cap Tuning Technique For TM-Mode Dielectric Resonators and Filters	Abdulrahman Widaa, Michael Höft	2021 IEEE MTT-S International Microwave Filter Workshop (IMFW)		10.1109/imfw49589.2021.9642354	https://macau.uni-kiel.de/receive/macau_mods_00002895
Publication in Conference proceedings/Workshop	Miniaturized All-Reconfigurable Dual-Mode Dielectric Filter Using Piezomotors for Future Satellite Communications	Abdulrahman Widaa; Chad Bartlett; Michael Höft	2021 51st European Microwave Conference (EuMC)		10.23919/eumc50147.2022.9784226	https://macau.uni-kiel.de/receive/macau_mods_00002894
Publication in Conference proceedings/Workshop	Additive Manufacturing of Non-homogenous Dielectric Waveguide Structures and Filters	L. Robins, A. Arsanjani, C. Bartlett, R. Teschl, W. Bösch and M. Höft	2021 IEEE MTT-S International Microwave Filter Workshop (IMFW)		10.1109/imfw49589.2021.9642291	https://openlib.tugraz.at/62e23d35ee643
Publication in Conference proceedings/Workshop	Additive manufacturing of a 4th-order K-band semi-planar slow-wave filter	A. Arsanjani, L. Robins, B. Meier, J. Petrusa, R. Teschl and W. Bösch	2021 IEEE MTT-S International Microwave Filter Workshop (IMFW)		10.1109/imfw49589.2021.9642380	https://openlib.tugraz.at/62e23680823de
Publication in Conference proceedings/Workshop	A Compact Slow-Wave Filter with Double-sided Selectivity and Wide Out-of-Band Rejection	A. Arsanjani, H. S. Farahani, B. Rezaee, R. Teschl and W. Bösch	2021 IEEE Asia-Pacific Microwave Conference (APMC)		10.1109/apmc52720.2021.9661651	https://openlib.tugraz.at/62e2282f1c048
Publication in Conference proceedings/Workshop	Implementation of K-band Mushroom meta-material filter for satellite applications	A. Arsanjani, L. Robins, R. Teschl and W. Bösch	2020 50th European Microwave Conference (EuMC), 2021		10.23919/eumc48046.2021.9338056	https://openlib.tugraz.at/6036a421d2fd9
Publication in Conference proceedings/Workshop	Miniaturized Dual-Band TM-Mode Dielectric Filter and Its Reconfiguration Capabilities	Abdulrahman Widaa, Michael Höft	2022 IEEE MTT-S International Microwave Symposium		10.1109/ims37962.2022.9865353	https://macau.uni-kiel.de/receive/macau_mods_00002897
Publication in Conference proceedings/Workshop	Inset Resonators and Their Applications in Fixed/Reconfigurable Microwave Filters	Abdulrahman Widaa, Chad Bartlett, Michael Höft	2022 IEEE/MTT-S International Microwave Symposium - IMS 2022		10.1109/ims37962.2022.9865311	https://macau.uni-kiel.de/receive/macau_mods_00002897
Article in Journal	Miniaturized Dual-Band Dual-Mode TM-Mode Dielectric Filter in Planar Configuration	Abdulrahman Widaa, Michael Höft	IEEE Journal of Microwaves	9th Feb 2	10.1109/imw.2022.3145906	https://macau.uni-kiel.de/receive/macau_mods_00003091
Publication in Conference proceedings/Workshop	Compact Ultra-Wideband Bandpass Filter Using Additively Manufactured TM-Mode Dielectric Resonators	Widaa, Abdulrahman Hassan Ahmed; Cacciolani, Fabrizio; Pelliccia, Luca; Tomassoni, Cristiano; di Crescolant, Vittorio Torielli; Höft, Michael	Proc. 52nd Eur. Microw. Conf., Sept. 2022		10.23919/eumc54642.2022.9924504	https://macau.uni-kiel.de/receive/macau_mods_00002899
Article in Journal	Compact Triangular-Cavity Singlet-Based Filters in Stackable Multi-Layer Technologies	Bartlett, Chad Daniel; Gohari, Mohammad Mehrabi; Glubokov, Oleksandr; Oberhammer, Joachim; Höft, Michael	IEEE Transactions on Terahertz Science and Technology	vol 12 no 5	10.1109/ths.2022.3191237	https://macau.uni-kiel.de/receive/macau_mods_00003006
Publication in Conference proceedings/Workshop	Transmission zeros in in-line filters by using source to load paths with suppressed spurious frequencies	Abdul Rahman, Enrique López Oliver, Cristiano Tomassoni	European Microwave Conference (EuMC) Sep 2022		10.23919/eumc54642.2022.9924464	https://zenodo.org/record/7323018
Article in Journal	Investigation of the cutting plane and tolerance analysis of cross-coupled W-band waveguide filters with multiple transmission zeros by source to load cross-coupling	Daniel Miek , Chad Bartlett , Fynn Kamrath , Patrick Boe, Michael Höft	International Journal of Microwave and Wireless Technologies		10.1017/s1759078721000957	https://macau.uni-kiel.de/receive/macau_mods_00003208?lang=en
Publication in Conference proceedings/Workshop	Bandpass Filter Based on 3-D-Printed Ceramic Resonators	Enrique López-Oliver, Cristiano Tomassoni; Fabrizio Cacciolani, Luca Pelliccia; Vittorio Torielli Di Crescolant	2022 24th International Microwave and Radar Conference (MIRON)	5	10.5281/zenodo.7328508	https://zenodo.org/record/7328491
Publication in Conference proceedings/Workshop	Dual-Band Filters Based on Dual-Mode Ellipsoidal Cavities	Enrique López-Oliver; Cristiano Tomassoni	2022 IEEE/MTT-S International Microwave Symposium - IMS 2022	3	10.1109/IMS37962.2022.9865249	https://zenodo.org/record/7328518
Publication in Conference proceedings/Workshop	Multipactor Breakdown Analysis of Ku-Band Meandered Low-Pass Filter	Sami, Abdul; Teberio, Fernando; Arnedo, Israel; Martín-Iglesias, Petronilo; Lopetegui, Txema; Laso, Miguel; Arregui, Iván	International Workshop on Multipactor, Corona and Passive Intermodulation (MULCOPIM),	4	10.5281/zenodo.7343236	https://zenodo.org/record/7343236
Publication in Conference proceedings/Workshop	High-Performance Stepped-Impedance Bandpass Filters for Millimeter-wave Applications	Sami, Abdul; Teberio, Fernando; Arnedo, Israel; Martín-Iglesias, Petronilo; Lopetegui, Txema; Arregui, Iván; Laso, Miguel	URSI Atlantic Radio Science Meeting (URSI AT-AP-RASC), Gran Canaria, Spain, 29 May – 3 June 2022	6	10.5281/zenodo.7343305	https://zenodo.org/record/7343305
Article in Journal	Tunable Coaxial Bandpass Filters Based on Inset Resonators	Widaa, Abdulrahman Hassan Ahmed; Bartlett, Chad Daniel; Höft, Michael	IEEE Transactions on Microwave Theory and Techniques		10.1109/tmt.2022.3222321	https://macau.uni-kiel.de/receive/macau_mods_00003251
Publication in Conference proceedings/Workshop	Miniaturized Ultra-Wideband Bandpass Filter Based on Substrate Integrated Quasi-Lumped Resonators	Messaoudi, EM.; Martínez Pérez, JD.; Boria Esbert, VE.	IEEE MTT-S International Microwave Filter Workshop (IMFW 2021)		10.1109/imfw49589.2021.9642382	https://riunet.upv.es/handle/10251/190461
Publication in Conference proceedings/Workshop	Analysis and Design of Re-Configurable Combine Filters Using Dielectric Tuners	Abhishek Sharma; Santiago Coquilos; Vicente E. Boria; Marco Guglielmi	2021 51st European Microwave Conference (EuMC)		10.23919/eumc50147.2022.9784345	https://riunet.upv.es/handle/10251/190518
Article in Journal	Metasurfaces for Filter Miniaturization and Out-of-Band Rejection Improvement	Arash Arsanjani; Chad Bartlett; Luke Robins; Reinhard Teschl; Wolfgang Bösch; Michael Höft	IEEE Microwave and Wireless Technology Letters		10.1109/imwt.2022.3221467	https://graz.pure.elsevier.com/en/publications/metasurfaces-for-filter-miniaturization-and-out-of-band-rejection
Publication in Conference proceedings/Workshop	Transmission Zeros in Rectangular Waveguide Filters: A Novel Approach for Generating the Source-to-Load Coupling	Rehman, Abdul; Tomassoni, Cristiano	2022 IEEE MTT-S International Conference on Electromagnetic and Multiphysics Modeling and Optimization (NEMO2022)		10.5281/zenodo.7550790	https://zenodo.org/record/7550790
Publication in Conference proceedings/Workshop	Stereolithography Additive Manufacturing of Overmoded Spherical Filters	Enrique López-Oliver; Cristiano Tomassoni	2022 Microwave Mediterranean Symposium (MMS)		10.1109/MMS55062.2022.9825548	https://zenodo.org/record/7565793
Article in Journal	Spurious Self-Suppression Method: Application to TM Cavity Filters	Rehman, Abdul; Tomassoni, Cristiano	IEEE Transactions on Microwave theory and techniques	23.11.22	10.1109/TMTT.2022.3222328	https://zenodo.org/record/7565555
Article in Journal	3D-Printed Dielectric Resonators for Quasi-TE ₁₁₂ Mode Singlets, Doublets and Dual-Mode Filters	Luke Robins, Arash Arsanjani, Reinhard Teschl, Wolfgang Bösch, Chad Bartlett, Michael Höft, Abdulrahman Widaa	IEEE Access	volume 10	10.1109/access.2022.3228764	https://graz.pure.elsevier.com/en/publications/3d-printed-dielectric-resonators-for-quasi-te112-mode-singlets-do
Article in Journal	Very Compact Diplexer Based on Dual-Mode Dielectric TM-Mode Resonators	Widaa, Abdulrahman Hassan Ahmed; Höft, Michael	IEEE Microwave and Wireless Technology Letters		10.1109/imwt.2022.3228398	https://macau.uni-kiel.de/receive/macau_mods_00003319
Article in Journal	Widely Tunable TM-Mode Dielectric Filters With Constant Absolute Bandwidth Using Re-Entrant Caps	Abdulrahman Widaa and Michael Höft	IEEE Journal of Microwaves		10.1109/imw.2023.3242689	https://macau.uni-kiel.de/receive/macau_mods_00003425

Article in Journal	Design of Compact Quasi-Elliptic Bandpass Filters Based on Coaxial Inset Resonators	Abdulrahman Widaa, Chad Bartlett, and Michael Höft	IEEE Access		10.1109/access.2023.3247137	https://macau.uni-kiel.de/receive/macau_mods_00003424
Article in Journal	Multiport Beamforming System Based on Reconfigurable Waveguide Phased Antenna Array for Satellite Communication Applications	Yifang Wei, Christian Arnold, Jiasheng Hong	IEEE Access	volume 11	10.1109/access.2023.3261671	https://pure.hw.ac.uk/ws/portallites/porta/91631280/Multiport_Beamforming_System_Based_on_Reconfigurable_Waveguide_Phased_Antenna_Array_for_Satellite_Communication_Applications_1_.pdf
Article in Journal	Compact Substrate Integrated Waveguide Wideband Bandpass Filter With Post-Manufacturing Tuning Capabilities	Messaaoui, EM.; Martínez Pérez, JD.; Boria Esbert, VE	IEEE access	volume 11	10.1109/access.2022.3233867	https://riunet.upv.es/handle/10251/192650
Article in Journal	Improved TM Dual-Mode Filters With Reduced Fabrication Complexity	Chad Bartlett, Jens Bornemann, Michael Höft	IEEE Journal of Microwaves	volume 3 Issue 1	10.1109/jmw.2022.3211428	https://macau.uni-kiel.de/receive/macau_mods_00003160
Article in Journal	Highly Selective Broadband mm-Wave Diplexer Design	Chad Bartlett, Oleksandar Glubokov, Fynn Kamrath, Michael Höft	IEEE Microwave and Wireless Technology Letters	Volume: 33, Issue:	10.1109/mwc.2022.3205425	https://macau.uni-kiel.de/receive/macau_mods_00003564
Publication in Conference proceedings/Workshop	The Anglet: An E/H-plane Bent, 90-Degree Twisted, TE ₁₀ /TM ₁₀ -Mode Singlet Building Block	Chad Bartlett, Michael Hoelt	2023 IEEE Radio and Wireless Symposium (RWS)		10.1109/rws55624.2023.10046313	https://macau.uni-kiel.de/receive/macau_mods_00003563
Article in Journal	Synthesis of rectangular waveguide filters with smooth profile oriented to direct metal additive manufacturing	Percas Ciriza, Jon Mikel, Hussain, Jabir Arregui Padilla, Iván Teberio Berdún, Fernando Benito Pertusa, David Martín Iglesias, Petronilo Arnedo Gil, Israel Gómez Laso, Miguel Ángel Lopetegui Beregaja, José María	IEEE Transactions on Microwave Theory and Techniques		10.1109/tmtt.2023.3245683	https://academica-e.unavarra.es/xmlui/handle/2454/45204
Article in Journal	Bandwidth-Reconfigurable Coaxial Bandpass Filter With Multioctave Tuning Using a Single Element	Widaa, Abdulrahman Hassan Ahmed; Sharma, Abhishek; Bartlett, Chad Daniel; Cogollos, Santiago; Boria, Vicente E.; Guglielmi, Marco; Höft, Michael	IEEE Microwave and Wireless Technology Letters		10.1109/mwtl.2023.3264673	https://macau.uni-kiel.de/receive/macau_mods_00003588
Publication in Conference proceedings/Workshop	Development of a sealed 3D printed dielectric filled waveguide filter with embedded lattices	Luke Robins; Arash Arsanjani; Hiroaki Takahashi; Reinhard Teschl; Wolfgang Bösch	2022 Asia-Pacific Microwave Conference (APMC)		10.23919/apmc55665.2022.9999826	https://openlib.tugraz.at/download.php?id=64770d43312f6&location=browse
Article in Journal	On-Chip Integration of Orthogonal Subsystems Enabled by Broadband Twist at 220–325 GHz	Mohammad Mehrabi Gohari; Oleksandr Glubokov; Suxian Yu; Joachim Oberhammer	IEEE transactions on microwave theory and techniques		10.1109/tmtt.2023.3253963	https://kth.diva-portal.org/smash/record.jsf?dswid=2432&pid=diva2%3A1754313&c=1&searchType=RESEARCH&language=en&query=&af=%5B%5D&aq=%5B%5B%7B%22freeText%22%3A%22+On-Chip+Integration+of+Orthogonal+Subsystems+Enabled+by+Broadband+Twist+at+220%E2%80%93325+GHz%22%7D%5D&aq2=%5B%5B%5D%5D&age=%5B%5D&noOfRws=50&sortOrder=author_sort_asc&sortOrder2=title_sort_asc&onlyFullText=false&sf=all
Publication in Conference proceedings/Workshop	Compact W-band Silicon-Micromachined Filters with Increased Fabrication Robustness	O. Glubokov, M. Mehrabi Gohari, J. Campion, J. Oberhammer	2022 IEEE/MTT-S International Microwave Symposium - IMS 2022		10.1109/ims37962.2022.9865295	https://www.diva-portal.org/smash/record.jsf?pid=diva2:1709170
Publication in Conference proceedings/Workshop	Improvement of Corona Breakdown Threshold (Peak Power Handling) in Smooth-Profiled Microstrip Filters	Ahmad, Jamil; Hussain, Jabir; Arregui, Ivan; Martín-Iglesias, Petronilo; Arnedo, Israel; Laso, Miguel; Lopetegui, Txem	International Workshop on Multipactor, Corona and Passive Intermodulation (MULCOPIM), Valencia, Spain, 19-21 October 2022 (Session 08)		10.5281/zenodo.8198958	https://zenodo.org/record/8198958