

PROGRAM AT A GLANCE (MAPCON – 2023)

Date	Hall No.	08:30 to 10:30	10:30 to 11:00 Tea Break	Hall No.	11:00 to 13:00	13:00 to 14:00 Lunch Break	Hall No.	14:00 to 16:00	16:00 to 16:30 Tea Break	Hall No.	16:30 to 18:30	18:30 to 19:30	1930 Onwards	
11.12.2023	H1	S6	Tea Break	H1	PhD Initiative Program	Lunch Break	H1	Special Session-SS1	Tea Break	H1	Keynote Speaker Talks 1-Dr. Nuno Borges Carvalho 2-Prof. Omar M. Ramahi 3-Dr. Stefano Maci 4-Shri Sumitesh Sarkar 5-Dr. Yahia M.M Antar		Dinner	
	H2	S3A		H2	S3B + S25		H2	S4A		H2				
	H3	S1A		H3	S1B + S2		H3	S9		H3				
	H4	S5A		H4	S5B		H4	S5C + S10		H4				
	H5	S8A		H5	S8B		H5	S19A		H5				
	H6	-		H6	S7		H6	-		H6				
	H7	-		H7	-		H7	-		H7				
	Poster Gallery	Poster Session P1		Poster Gallery	-		Poster Gallery	-		Poster Gallery				
12.12.2023	H1	S16A	Inauguration • General Chair Welcome • TPC Program Overview • Talk by Dr. A S Kiran Kumar • Talk by Chairman, In-Space • Chief Guest Talk • Signature Sponsor talk	H1	S16B	Lunch Break	H1	Special Session-SS2	Tea Break	H1				
	H2	S4B		H2	S4C		H2	S4D		H2				
	H3	S11A		H3	S11B		H3	S11C		H3				
	H4	S12A		H4	S12B		H4	S29		H4				
	H5	S19B		H5	S19C		H5	S14A		H5				
	H6	-		H6	-		H6	-		H6				
	H7	-		H7	-		H7	-		H7				
	Poster Gallery	Poster Session P2		Poster Gallery	Poster Session P2		Poster Gallery	-		Poster Gallery				
	Imperia Auditorium	10:00 to 12:00 Inauguration + Chief Guest Address + Plenary Speakers		12:00 to 16:30 SIGHT Program at Imperia Auditorium				16:30 to 19:00 Industry Panel Session Sponsor presentation		Cultural Program + Gala Dinner				
13.12.2023	H1	Special Session-SS3	Tea Break	H1	Start-up Initiative Session	Lunch Break	H1	Special Session-SS4	Tea Break	H1	Special Session-SS5	18:30 To 19:10 Gold sponsor Presentation	Award Function + Banquet Dinner	
	H2	S27A		H2	Keynote Speaker Talks 1- Dr. Amalendu Patnaik 2- Dr. Ramesh K Gupta 3-Prof. Shiban K. Koul 4-Dr. Theodore Reck 5 Prof . Kaushik Sengupta		H2	S27B		H2	S24			
	H3	S11D		H3	-		H3	S15A		H3	S15B			
	H4	S13A		H4	-		H4	S13B		H4	S13C+S17			
	H5	S14B		H5	-		H5	S20		H5	S28			
	H6	Student Design Contest		H6	-		H6	-		H6	-			
	Board Room 2	Executive Committee Meeting		H7	-		H7	Chapter Chair Meeting		H7	-			
	Poster Gallery	Poster Session P3		Poster Gallery	-		Poster Gallery	Poster Session P4		Poster Gallery	Poster Session P5			
Imperia Auditorium		YP Session, WiE Session, Joint Session												
14.12.2023	H1	Special Session-SS6	Tea Break	H1	Ph.D. Initiative Program	Lunch Break	H1	Valedictory Function & Closing Ceremony	Tea Break	H1				
	H2	S30		H2	S22+ S27C		H2							H2
	H3	S15C		H3	S15D		H3							H3
	H4	S21		H4	S26		H4							H4
	H5	S18A		H5	S18B		H5							H5
	H6	S23		H6	-		H6							H6
	H7	-		H7	-		H7							H7
	Poster Gallery	Poster Session P6		Poster Gallery	-		Poster Gallery							Poster Gallery

Session Code	Session Title	Session Chair
S1A	Phased Array Antennas-1	Dr. Manoj Meshram
S1B	Phased Array Antennas-2	Shri Sanjeev Kulshreshta
S2	Reflectarray Antennas	Shri Sanjeev Kulshreshta
S3A	Frequency Selective Surfaces & Radomes-1	Shri Satyajit Chakraborty
S3B	Frequency Selective Surfaces & Radomes-2	Dr. A. R. Harish
S4A	RADAR & Remote Sensing-1	Dr Ashutosh Kedar
S4B	RADAR & Remote Sensing-2	Shri Yogesh Verma
S4C	RADAR & Remote Sensing-3	Shri Yogesh Verma
S4D	RADAR & Remote Sensing-4	Dr. Jolly Dhar
S5A	SATCOM Antennas and Payloads-1	Dr. VK Singh
S5B	SATCOM Antennas and Payloads-2	Dr. Senthil Kumar
S5C	SATCOM Antennas and Payloads-3	Dr. S B Chakraborty
S6	Aircraft, UAV & Missile Antennas	Shri Devendra Sharma
S7	Ultra Wide Band and Multiband antennas	Dr. Ramesh Chandra Gupta
S8A	Metamaterials & Metasurfaces-1	Dr. Debdeep Sarkar
S8B	Metamaterials & Metasurfaces-2	Dr. Vaibhav Kumar Srivastava
S9	Reconfigurable Antennas and Intelligent Reflecting Surfaces	Dr. M M Sharma
S10	Computational Electromagnetics	Dr. S B Chakraborty
S11A	MIMO and 5G Antennas-1	Dr. Amalendu Patnaik
S11B	MIMO and 5G Antennas-2	Dr. Kanhaiya Sharma
S11C	MIMO and 5G Antennas-3	Dr. Debatosh Guha
S11D	MIMO and 5G Antennas-4	Dr. Animesh Biswas
S12A	Millimetre Wave Technologies-1	Dr. Imran Mehdi
S12B	Millimetre Wave Technologies-2	Dr. Imran Mehdi
S13A	Amplifiers and High Power Microwave Devices-1	Smt. Shilpi Soni
S13B	Amplifiers and High Power Microwave Devices-2	Dr. Karun Rawat
S13C	Amplifiers and High Power Microwave Devices-3	Dr. K K Sood
S14A	Passive Components & RF Circuits-1	Dr. Shibam Koul
S14B	Passive Components & RF Circuits-2	Dr. K J Vinoy
S15A	Active Components, RFIC & MMIC devices-1	Dr. Sandeep Chaturvedi
S15B	Active Components, RFIC & MMIC devices-2	Shri Santanu Sinha
S15C	Active Components, RFIC & MMIC devices-3	Dr. Meenakshi Rawat & Dr. Piyush Sinha
S15D	Active Components, RFIC & MMIC devices-4	Dr. Immanuel Raja
S16A	Substrate Integrated Waveguide (SIW) Technologies-1	Dr. Saptarshi Ghosh
S16B	Substrate Integrated Waveguide (SIW) Technologies-2	Dr. Ranajit Dey
S17	RF Sensors & Non-Destructive Testing methods	Dr. K K Sood
S18A	Fabrication, Packaging and 3D printing-1	Dr. Ajay Poddar
S18B	Fabrication, Packaging and 3D printing-2	Dr. Ajay Poddar
S19A	Medical, Biomedical and Industrial Applications of Microwaves-1	Dr. Mahesh Abegaonkar
S19B	Medical, Biomedical and Industrial Applications of Microwaves-2	Dr. Anirban Sarkar
S19C	Medical, Biomedical and Industrial Applications of Microwaves-3	Dr. Anirban Sarkar
S20	Quantum Devices, Systems & Applications	Dr. Naresh Chand
S21	RF Energy Harvesting & Wireless Power Transfer	Dr. Sukomal Dey
S22	Artificial Intelligence & Machine Learning	Dr. V K Singh
S23	Antenna & Microwave Measurements	Shri Puneet Mishra
S24	EMI & EMC	Dr. Chandrakanta Kumar

Session Code	Session Title	Session Chair
S25	Automotive Technologies	Dr. A.R. Harish
S26	Plasmonics	Dr. Deepak Ghodgaonkar
S27A	Microstrip Antennas-1	Dr Mahesh Abegaonkar
S27B	Microstrip Antennas-2	Dr. Ravi Kumar Gangwar
S27C	Microstrip Antennas-3	Dr. Ganga Prasad Pandey
S28	Advanced Passive Antennas	Dr. KP Ray
S29	THz Sensing & Imaging	Dr. Priyansha Kaurav
S30	Emerging Technologies for 6G Communication	Dr. Chinmoy Saha
SS1	Special Session on High Power Microwave Devices	Dr. Braj Shukla
SS2	Special Session on Technology Trends: Shaping Future Communications	Dr. Vinod Kumar & Dr. Brijesh Kumar Soni
SS3	Special Session on Advanced Technologies for Reconfigurable Antennas	Shri Sravan Sagi & Dr Deepak Ghodgaonkar
SS4	Special Session on The Next-Generation Microwave Sensors/Radar and Technologies	Dr. CVN Rao
SS5	Special Session on Quantum Device, Systems and Applications	Shri. DK Singh
SS6	Special Session on Microwave Applications: Emerging Technologies & Potential for Earth Observations and Space Science	Dr. Rashmi Sharma
	Student Design Contest	Dr. VK Singh
	Women in Engineering	Dr. Shobha Sundar Ram
	Young Profession	Dr. Somak Bhattacharya
	SIGHT	Dr. Chinmoy Saha & Shri Puneet Mishra

S.No	Paper ID (Short)	Paper ID (Global)	Paper Title	Authors with Affiliation and Country	Track	Session
1	21	1570928675	Side Lobe Blanking in Active Phased Array Antenna	Pramod Kumar (India)	Phased Array Antennas	S1A
2	23	1570928913	Novel Innovative Schemes for Remote Update of Software and Firmware for Digital and RF LRUs in Large Aperture Array Antenna	Abhinandan Sarkar (LRDE, Ministry of Defence & DRDO, India)	Phased Array Antennas	S1A
3	31	1570932548	Investigations on the Performance of Isophoric Linear Sparse Array Antenna With Low Sidelobe Level Due to Non-Isotropic Radiators	Ashutosh Kedar (Scientist F, India)	Phased Array Antennas	S1A
4	64	1570938852	Design Proposal for Wide Scan Energy Efficient Concentric Ring Phased Array Antennas Using Penrose Tessellations	Ashutosh Kedar (Scientist F, India); Francesco Alessio Dicandia (National Research Council (CNR), Italy); Simone Genovesi and Giuliano Manara (University of Pisa, Italy)	Phased Array Antennas	S1A
5	114	1570940254	Novel Concept of Projected Polyhedron to Generate Quasi-Periodic Array Lattice for SLL Improvement in Beam Steerable Array Antenna	Pratik B Mevada (Space Application Center-ISRO, India); Sanjeev Gupta (DA-IICT, India); Vijay Kumar Singh (Co-author, India)	Phased Array Antennas	S1A
6	256	1570944562	60-GHz Magneto-Electric Dipole Antenna-Based Array	Sreenath Reddy Thummaluru (IIITDM Kancheepuram, India); Julien Sarrazin (Sorbonne Université, France); Raghvendra Kumar Chaudhary (IIT Kanpur, India)	Phased Array Antennas	S1A
7	366	1570945356	Compact Phased Array Antenna Integrated With CRLH Based Digital Phase Shifter for X-Band Radar and Satellite Communications	Soumik Dey, Mannam Sree Keerthi and Sukomal Dey (Indian Institute of Technology Palakkad, India)	Phased Array Antennas	S1A
8	384	1570945426	Beamforming in Micro-Strip Phased Array Antenna Through Optimal Phase Angle Rounding-Off Technique	Avnish Kumar (RCI Hyderabad, India); Prashant Kumar Mishra (Defence Research and Development Organisation, India); Debasish Ghose (IISc Bangalore, India)	Phased Array Antennas	S1A
9	427	1570945552	Compact 5-18 GHz Vivaldi-Like Antenna for Airborne EW Phased Array Applications	Sathishkannan P (Defence Institute of Advanced Technology Pune, India); Rajesh K Singh (Defence Institute of Advanced Technology Pune, India & DIAT Pune, India); Ashish Jindal (DRDO, India); Sunil Singh and Suma Varughese (Defence Research and Development Organisation, India)	Phased Array Antennas	S1B
10	561	1570947569	A Novel Serpentine Online Calibration Network for Printed Dipole Phased Array Antenna at Ku-Band	Dovari Nagaraju (Research Center Imarat, India)	Phased Array Antennas	S1B
11	588	1570947748	Wideband Phased Array Radar Antenna Using Low Profile Cavity-Backed Slots	Nikhil Gupta (Central Research Laboratory, India); Bal Mukund Jha (Bharat Electronics Limited, Ghaziabad, India)	Phased Array Antennas	S1B
12	241	1570944275	A Wideband Low Profile Metasurface Based Folded Transmitarray Antenna (FTA)	Somak Bhattacharyya (IIT (BHU), India); Sougata Chatterjee (IIT (BHU), Varanasi, India); Yashwant Gupta (NCRA, TIFR, India)	Reflectarray Antennas	S2
13	254	1570944546	High Gain Wideband 16x16 Reflectarray Antenna for 5G and mm-Wave Application	Ravi Mali (IIT, India & BHU, India); Rajkumar Jatav (IIT(BHU), India); Praveen Singh Rathore (Indian Institute of Technology (BHU), India); Rupam Bharati (IIT BHU, India); Manoj Kumar Meshram (Indian Institute of Technology (BHU) & Banaras Hindu University, India)	Reflectarray Antennas	S2
14	293	1570944914	Impact Analysis of Facet Gaps in X-Band Origami Based Deployable Reflectarray Antenna	Akash D Pandya (Chandubhai S Patel Institute of Technology, India); Pratik B Mevada (Space Application Center-ISRO, India); Yogeshwar Prasad Kosta (Charotar University of Science and Technology, India); Jitendra Chaudhari (Chandubhai S Patel Institute of Technology, India); Amit Patel (Charotar University of Science and Technology, India); Keyur K Mahant (Individual Researcher, India); Axat Patel and Maulik Shah (Chandubhai S Patel Institute of Technology, India); Vijay Kumar Singh (Co-author, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	Reflectarray Antennas	S2
15	524	1570946597	Dual-Polarized Reflectarray Antenna for Full-Duplex Communication at Millimeter Waves	Javid Ahmad Ganie and Kushmanda Saurav (Indian Institute of Technology Jammu, India)	Reflectarray Antennas	S2
16	11	1570925109	Low Profile Broadband Wheel Shaped Resistive-FSS Glass Composite for Aerospace Stealth Platforms	Priyanka Bhambu (Central University of Punjab, India); Himangshu Baskey (DMSRDE, DRDO, Kanpur, India); Prashant S. Alegaonkar (Central University of Punjab, India)	Frequency Selective Surfaces & Radomes	S3A
17	15	1570926432	Simplified Design Methodology for RF Dielectric Homogeneous and Graded Index Lenses	Aakash Bansal, Chinthana J Panagamuwa and William Whittow (Loughborough University, United Kingdom (Great Britain))	Frequency Selective Surfaces & Radomes	S3A
18	39	1570935369	Fractal Shaped Multi-Layer Unit Cell Design With Tunable Polarization Conversion Performance	Amartya Banerjee (TCS Research, India); Soumya Chakravarty and Tapas Chakravarty (Tata Consultancy Services Limited, India); Rowdra Ghatak (National Institute of Technology Durgapur, India)	Frequency Selective Surfaces & Radomes	S3A
19	126	1570940582	Electromagnetic Design of Planar Ablatable Radome Using Inhomogeneous Planar Layer Model	Rudra Narayan Barik (Birla Institute of Technology and Science, Pilani, Goa Campus, India); Aparna A P (Bits Pilani, K K Birla Goa Campus, India); Hrishikesh Sonalikar (BITS, Pilani, India)	Frequency Selective Surfaces & Radomes	S3A
20	128	1570940585	Design of Multiband FSS-Radome for Shared Aperture Antenna Application	Akshay Aserkar (BITS Pilani, India); Arya K. m., Dona Joseph, Raveendranath Nair and Shiv Narayan (CSIR-National Aerospace Laboratories, India)	Frequency Selective Surfaces & Radomes	S3A

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21	237	1570944211	Ultra-Wideband A-Sandwich Radome Wall With Multilayer FSS	Rashmi A. Pandhare (Indian Institute of Information Technology, Nagpur, India); Jay Shah (Manipal University Jaipur, India); Ashwin Kothari (VNIT Nagpur, India); Yogesh Solunke (VNIT NAGPUR, India); Fateh Lohar (Visvesvaraya National Institute of Technology Nagpur Nagpur, India); Dinesh Yadav (Manipal University Jaipur, India)	Frequency Selective Surfaces & Radomes	S3A
22	238	1570944223	Thermally Switchable Wideband Metamaterial Absorber Using Vanadium Dioxide	Rahul Vishwakarma, Jyoti Yadav, Abhishek Mishra, Amit Verma and Kumar Vaibhav Srivastava (Indian Institute of Technology Kanpur, India)	Frequency Selective Surfaces & Radomes	S3A
23	343	1570945258	Substrate Engineering for Tuning the Absorption Response of Microwave Absorber	Jyoti Yadav, Abhishek Mishra, Rahul Vishwakarma, Kumar Vaibhav Srivastava and J Ramkumar (Indian Institute of Technology Kanpur, India)	Frequency Selective Surfaces & Radomes	S3A
24	559	1570947541	FSS Integrated Hybrid Nanocomposite Microwave Absorber Structure for Stealth Applications	Anshuman Choudhary (Indian Institute of Technology Kanpur, India); Jitendra Tahalyani (IIT Kanpur, India); Mohammad Jaleel Akhtar (Indian Institute of Technology Kanpur, India)	Frequency Selective Surfaces & Radomes	S3B
25	574	1570947702	Compact Cylindrical X-Band Luneburg Lens Antenna Design	Ravi Kumar Arya (Zhongshan Institute of Changchun University of Science and Technology, China); Devansh Bhardwaj (National Institute of Technology, Rourkela, India); Junwei Dong (Zhongshan Institute of Changchun University of Science and Technology, China)	Frequency Selective Surfaces & Radomes	S3B
26	665	1570947914	Non-Planar Frequency Selective Surface Based Bandstop Filter for Electromagnetic Shielding	Saurabh Kichouliya (IIT Indore, India); Akhila Gouda and Saptarshi Ghosh (Indian Institute of Technology Indore, India)	Frequency Selective Surfaces & Radomes	S3B
27	74	1570939129	Reduction of RCS of a Series Fed Linear Array Antenna Using Artificial Magnetic Conductors	Baisakhi Bandyopadhyay, Rahul Kumar Jaiswal, Ranjit Kumar Dutta and Kumar Vaibhav Srivastava (Indian Institute of Technology Kanpur, India)	RADAR & Remote Sensing	S4A
28	136	1570940614	Algorithm for Precise Altitude Estimation in FMCW Radar	Ayush Jha and Sunita Khokhar (Indian Space Research Organisation, India)	RADAR & Remote Sensing	S4A
29	158	1570940759	Reliability Estimation of an Active Array Antenna Element for Space-Borne Synthetic Aperture Radar Using Ground Test Data	Satya Priya Mittal, Manish Mehta, Shilpa Pandya and Ajay Kumar Lal (Space Applications Centre (ISRO), India)	RADAR & Remote Sensing	S4A
30	178	1570940966	Wavelet Windows for Leakage Reduction in Remote Sensing Images	Palguna Kumar Reddy Gopireddy (National Institute of Technology Warangal, India)	RADAR & Remote Sensing	S4A
31	183	1570941000	RCS Analysis of Chaff Dipoles in Microwave Frequency Range	Mukesh Kumar Thakan (IIT JODHPUR, India); Soumava Mukherjee (Indian Institute of Technology Jodhpur, India)	RADAR & Remote Sensing	S4A
32	195	1570941134	U-Net With Dilated Convolution for Improved Clutter Removal in GPR Images	Swarna Panda and Subrata Maiti (National Institute of Technology, Rourkela, India); Upendra Sahoo (NIT Rourkela, India)	RADAR & Remote Sensing	S4A
33	326	1570945068	SWaP-CR Optimized L-Band High Power Dual Channel TRM With Extended Pulse Width	Swaraj Varshney. (DRDO, India); Benoy Kuriakose and Brajesh Kumar (LRDE, India); Sreenivasulu K (Government, India)	RADAR & Remote Sensing	S4A
34	333	1570945121	Radar-Based Digital Twins for Classification of UAVs and Avian Targets	Ahmed N. Sayed, Hewitt Tran and Omar Ramahi (University of Waterloo, Canada); George Shaker (University of Waterloo & Spark Tech Labs, Canada)	RADAR & Remote Sensing	S4A
35	336	1570945214	Design and Development of High Power Broadband Proximity Coupled Microstrip Array Antenna for Monopulse RADAR	Sambasiva rao Kumbha (Defence Research and Development, India); Dhananjay Ramchandra Jahagirdar (Research Center Imarat, India); Srujana Kagita and MV Kartikeyan (IIT Tirupati, India)	RADAR & Remote Sensing	S4B
36	352	1570945291	Printed Arrays for Radar for Drone Detection	Abhishek Kumar (Unistring Tech Solutions Pvt. Ltd., India); Lakshminarayana Merugu (Electronics Research Laboratory, India)	RADAR & Remote Sensing	S4B
37	489	1570945731	Monte-Carlo Based Approach for Analysis of Systematic and Random Errors in Deployment of Radial Rib Antenna	Pratik B Mevada (Space Application Center-ISRO, India); Yogesh Tyagi (SAC, ISRO, India); Vijay Kumar Singh (Co-author, India); Sanjeev Kulshrestha (Space Application Centre, ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	RADAR & Remote Sensing	S4B
38	496	1570945741	Kalman Filter for Precise Altitude Estimation in FMCW Radar	Ayush Jha (Indian Space Research Organisation, India)	RADAR & Remote Sensing	S4B
39	505	1570945759	Optimization of Modulating Waveforms for Maximum Signal-To-Noise Ratio in a FMCW Radar	Jatin Kumar (Indian Institute of Technology Kharagpur, India); Mrinal Kanti Mandal (Indian Institute of Technology, Kharagpur, India); Ayush Kumar (Indian Institute of	RADAR & Remote Sensing	S4C
40	511	1570945923	Pencil Beam Scanning Antenna for SCATSAT-1 Scatterometer	Gaurav Upadhyay and Vijay Kumar Singh (Co-author, India); Anil L Solanki (Space Applications Centre, ISRO, India); Sanjeev Kulshrestha (Space Application Centre, ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India); Rajeev Jyoti (InSpace DOS, India)	RADAR & Remote Sensing	S4C
41	521	1570946338	Transparent Binomially Tapered Series-Fed Patch Array With Circular Polarization for Space Surveillance and Tracking MIMO Radar	Ananya Mukherjee and Debdeep Sarkar (Indian Institute of Science, India)	RADAR & Remote Sensing	S4C
42	522	1570946468	High Gain Wideband Dual Circularly Polarized Microstrip Patch Antenna for GNSS Reflectometry	Deepa Sharma (Space Applications Centre, India); Devendra Kumar Sharma (ISRO, India); Sanjeev Kulshrestha (Space Application Centre, ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	RADAR & Remote Sensing	S4C
43	535	1570947226	Design of 2X2 EMCP Fed Microstrip Patch Array for Altimeter Payload on Space Re-Entry Vehicle	Anand Singh (Space Applications Centre Ahmedabad, India); Devendra Kumar Sharma (ISRO, India); Sanjeev Kulshrestha (Space Application Centre, ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	RADAR & Remote Sensing	S4D

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44	558	1570947536	Severity of Fall Detection Using Digital Twin for Radar Systems	Abdelrahman Elbadrawy, Hajar Abedi and Omar Ramahi (University of Waterloo, Canada); George Shaker (University of Waterloo & Spark Tech Labs, Canada)	RADAR & Remote Sensing	S4D
45	564	1570947585	Scanning Radar for Hazard Detection During Landing	Ayush Jha (Indian Space Research Organisation, India)	RADAR & Remote Sensing	S4D
46	565	1570947586	Efficient Implementation of Direction of Arrival Using RFSoc Platform	Dusari Nageswara Rao (Indian Institute of Technology, Roorkee, India); Meenakshi Rawat (IIT Roorkee, India)	RADAR & Remote Sensing	S4D
47	637	1570947877	A Novel Compact Wideband Planar Antenna Design for FOPEN Radar Applications	Ashwitha K. Shetty (NITK, India); Madhusudhan Goud Rangula, Mr (National Institute of Technology Karnataka & Surathkal, India); Krishnamoorthy Kandasamy (National Institute of Technology Karnataka, SURATKAL, India); Pathipati Srihari, Dr (National Institute of Technology Karnataka, India)	RADAR & Remote Sensing	S4D
48	644	1570947885	Wide Swath Full Polarimetric SAR: Present and Future	Krishna Murari Agrawal (Space Applications Centre, ISRO, India); V Manavalan Ramanujam (Space Application Center -ISRO, India); Mr Raghav Mehra (ISRO, India)	RADAR & Remote Sensing	S4D
49	663	1570947911	Orthogonal Circular Polarized Transmitter and Receiver Antennas for Mitigation of Mutual Coupling in Monostatic Radars	Shobha Ram (IIIT Delhi, India); Akanksha Sneha (Indraprastha Institute of Information Technology, Delhi, India)	RADAR & Remote Sensing	S4D
50	675	1570947924	Classification of Targets Using Time-Frequency Analysis of GPR Data	Sangeeta Tarai (National Institute of Technology, Rourkela, India); Ajit Sahoo (NIT Rourkela, India); Subrata Maiti (National Institute of Technology, Rourkela, India)	RADAR & Remote Sensing	S4D
51	698	1570949701	System Design of HRWS Frequency Scanning SAR for Airborne Applications	Yogendra Sahu (Space Application Centre, India); Partha Nandy (Space Application Centre ISRO, India); Prantik Chakraborty (SAC ISRO, India); Pankaj K Nath (Space Application Centre, India); Cvn Rao (Space Applications Centre (ISRO), India)	RADAR & Remote Sensing	S4D
52	712	1570951187	RadarSleepNet: Sleep Pose Classification via PointNet++ and 5D Radar Point Clouds	Alessandra Fusco and Souvik Hazra (Infineon Technologies AG, Germany)	RADAR & Remote Sensing	S4D
53	14	1570925723	An Ultrawideband 5G Interference Mitigation Filter for C-Band Ground Based SATCOM Receivers	Parthasarathi Samanta (Space Applications Centre, ISRO, Ahmedabad, India); Shivam Tiwari (Space Applications Centre, India); Hitesh Modi (Sac isro, India); Vineet K Dad (Space Applications Centre, India); Praveen Ambati (SAC-ISRO, India)	SATCOM Antennas and Payloads	S5A
54	22	1570928897	Design of a Rugged Radiating Panel Assembly With High Reliability	Abhinandan Sarkar (LRDE, Ministry of Defence & DRDO, India)	SATCOM Antennas and Payloads	S5A
55	87	1570939458	Design & Development of Ka-Band Block Converter for Payload Data Reception	Mridula Dwivedi (ISTRAC, ISRO, India); Tarun Goyal (ISRO-ISTRAC, India); S Maheswari (ISRO, Bangalore, India); Raghavendra Mr (ISTRAC, ISRO, India)	SATCOM Antennas and Payloads	S5A
56	102	1570940094	HEF 11m Tri-Band (S, X & Ka) Ground Station Antenna System	Tarun Goyal, K Manjunath and Ceena Sunil (ISRO-ISTRAC, India); Raghavendra Mr (ISTRAC, ISRO, India); B N Ramakrishna (ISTRAC-ISRO, India); V V Srinivasan (ISRO HQ, India)	SATCOM Antennas and Payloads	S5A
57	213	1570943108	Design and Development of Antenna System for Millimeter-Wave Humidity Sounder Payload	Ranjit Dey (Indian Space Research Organisation, India); Raksha Ram (ISRO, India); Sanjeev Kulshrestha (Space Application Centre, ISRO, India); Vijay Kumar Singh (Co-author, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	SATCOM Antennas and Payloads	S5A
58	225	1570943461	Active Phased Array Antenna for Satellite Communication Onboard Data Link Receiver	Prashant Kumar Mishra (Defence Research and Development Organisation, India); Girish Kumar (IIT Bombay, India); Avnish Kumar (RCI Hyderabad, India); Pavan Kumar Jada (Defence Research and Development Organisation, India)	SATCOM Antennas and Payloads	S5A
59	231	1570943941	A New Surface-Shaping Technique Based on Parametric Irregular-Point Cluster for Contoured-Beam Reflector Antenna	Ramesh Chandra Gupta and Sravan Kumar Sagi (Space Applications Centre ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	SATCOM Antennas and Payloads	S5A
60	308	1570944976	Design and Performance Evaluation of CP Horn With Integrated Mono-Groove Polarizer for Satellite Applications	Arun Kumar Sharma (Space Applications Centre, ISRO, India); Vijay Kumar Singh (Co-author, India); Sanjeev Kulshrestha (Space Application Centre, ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	SATCOM Antennas and Payloads	S5A
61	331	1570945106	Circularly Polarized Ultra-Compact Cross Slot Loaded CPW-Fed Antenna for Satellite Communication in Ka-Band	Jaiverdhan Choudhary (National Institute of Technology Uttarakhand, India); Bhawna Kalra (MNIT Jaipur, India); Ashish Kumar (NIT RAIPUR, India)	SATCOM Antennas and Payloads	S5B
62	361	1570945329	Miniaturized Omni Directional Antenna System for Onboard Telemetry Applications	V Srinivasa Rao (Defense Research Development Organization, India)	SATCOM Antennas and Payloads	S5B
63	367	1570945360	Design of Circular Cross-Section Smooth Profile Spline Horn Antenna for Ku-Band Applications	Yogesh B Karandikar (CEO & Tantrayut Telecommunications Pvt Ltd, India); Mayur Kakde, Shivangi Yadav and Kushal Tuckley (Tantrayut Telecommunications Pvt Ltd, India)	SATCOM Antennas and Payloads	S5B
64	385	1570945427	A Compact Dual Band Dual Linear Polarized Shared Aperture Antenna for Satellite C Band Tx and Rx	Bhawna Kalra (MNIT Jaipur, India); Jaiverdhan Choudhary (National Institute of Technology Uttarakhand, India); Soumava Mukherjee (Indian Institute of Technology Jodhpur, India); Mahendra Mohan Sharma (Malaviya National Institute of Technology, India)	SATCOM Antennas and Payloads	S5B
65	392	1570945447	Compact Low Frequency Tripler With Integrated Filter for Space Applications	Shruti Sinha (SAC, ISRO Ahmedabad, India); Anil Kumar Gupta (Space Applications Centre-ISRO, India); Cvn Rao (Space Applications Centre (ISRO), India); Jolly Dhar (Space Applications Centre, ISRO, India)	SATCOM Antennas and Payloads	S5B

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66	497	1570945743	Design of Low Scattering Strut for Ground Station Antennas to Meet ITU Recommendation	Yogesh Tyagi (SAC, ISRO, India); Pratik B Mevada (Space Application Center-ISRO, India); Vijay Kumar Singh (Co-author, India); Sanjeev Kulshrestha (Space Application Centre, ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	SATCOM Antennas and Payloads	S5B
67	513	1570945963	Design of Wideband Dual Gridded Reflector With Trifurcated Feed Horn	Sravan Kumar Sagi (Space Applications Centre ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	SATCOM Antennas and Payloads	S5B
68	580	1570947723	High-Efficiency Low Profile Full-Metal CTS Array for SATCOM	Ravikanth Thanikonda (University of Siena, Italy); David González-Ovejero (Centre National de La Recherche Scientifique - CNRS, France); Giovanni Toso (European Space Agency, ESA ESTEC, The Netherlands); Enrica Martini and Stefano Maci (University of Siena, Italy)	SATCOM Antennas and Payloads	S5B
69	583	1570947735	K/Ka Band ADE Reflector With Broadened Beam Size in 27-31 GHz Band	Krishna Prasad S (SAC/ISRO, India); Sravan Kumar Sagi (Space Applications Centre ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	SATCOM Antennas and Payloads	S5C
70	633	1570947870	Development of Hi-Rel Ka-Band Multipack Downconverter Assembly for High Throughput Satellite	Akhil Akhil (Space Applications Centre (ISRO), Ahmedabad, India); Dhaval N Patel and Aishwarya Ahluwalia (Space Applications Centre (ISRO), India); Rati Singh (SAC, ISRO, India)	SATCOM Antennas and Payloads	S5C
71	711	1570951130	Single Feed Based Wide Band Circularly Polarized Radiating Element for S-Band SATCOM	Rajesh Roy, Raj Kumar and Vinod Kumar Singh (Defence Electronics Applications Laboratory, India)	SATCOM Antennas and Payloads	S5C
72	193	1570941106	X-Band Receiver Design for Missile Application	Aparna Bhuvanagiri, Kiran Kumar Sorla and Ram Swarup Putti (Centum Electronics Limited, India)	Aircraft, UAV & Missile Antennas	S6
73	240	1570944259	An Inexpensive Drone and RF Emitter Tracking System Using Monopulse Comparator	Amit K, Aniket Vishwakarma, Harsh Kumar, Gowrish Basavarajappa and Karun Rawat (Indian Institute of Technology Roorkee, India)	Aircraft, UAV & Missile Antennas	S6
74	262	1570944736	Design and Development of RF-Based Unmanned Aerial Vehicle (UAV) Detection System	Rana Pratap Yadav (Homi Bhabha National Institute, Mumbai & Institute for Plasma Research, India); Yash Vasant Ahirrao and Sunil Kumar (Institute for Plasma Research, India)	Aircraft, UAV & Missile Antennas	S6
75	263	1570944744	Parametric Analysis of Unmanned Aerial Vehicle Based Antenna Arrays	Ashutosh Kedar (Scientist F, India); Angel Shiny Chellathurai (Altair Engineering Pvt Ltd, India); Anudeep Bellary (Altair Engineering, India)	Aircraft, UAV & Missile Antennas	S6
76	399	1570945479	A Compact Aerodynamic-Shaped High Beam-Squint Tilted Folded Slot Antenna for Unmanned Aerial Vehicles Data-Link Applications	Amitesh Kumar and Amit Yadav (SAMEER, India); Swatilekha Chowdhury and Vivek Kumar Singh (SAMEER Kolkata Centre, India); Satyajit Chakrabarti (SAMEER Kolkata, India)	Aircraft, UAV & Missile Antennas	S6
77	519	1570946195	Nested Circular Ring Based FSS-Composite for Low Observable Aerospace Platforms	Himangshu Baskey (DMSRDE, DRDO, Kanpur, India)	Aircraft, UAV & Missile Antennas	S6
78	530	1570946968	An SDR-Based Passive Radar for Detection and Tracking of Drones and UAVs	Sirish Deshmukh (Indian Institute of Science & INDIAN AIR FORCE, India); Jitesh Kumar (IISc, IAF, India)	Aircraft, UAV & Missile Antennas	S6
79	63	1570938735	Design of Koch Curve-Based Fractal Antenna for Ultra-Wideband Applications	Khushbu Patel (NIT Rourkela, India); Santanu Kumar Behera (National Institute of Technology Rourkela, India)	Ultra Wide Band and Multiband antennas	S7
80	189	1570941035	A Compact CRP Wideband Microstrip Antenna for Advanced Wireless Communication	T. Hemalatha (Vellore Institute of Technology-AP University, Amaravati, India); Bappaditya Roy (Vellore Institute of Technology, Amaravati, India); Venkata Lakshmaiah, Y (VIT-AP University, India)	Ultra Wide Band and Multiband antennas	S7
81	259	1570944638	A Wideband Dual Polarized Antenna for Mobile Base Stations	Srujana Vahini Nandigama (MathWorks India Pvt Ltd, India & Osmania University, India); Sharath Maadam (MathWorks India Pvt. Ltd, India); Sourabh Mukund Joshi and Shashank Kulkarni (MathWorks India Private Limited, India)	Ultra Wide Band and Multiband antennas	S7
82	280	1570944808	Heuristically Aided Design of Dual Band Shared Aperture Antenna Array	Karthik P B (Indian Institute of Technology Madras, India); Ashutosh Kedar (Scientist F, India); Saumya Adhikari (Independent Consultant, India)	Ultra Wide Band and Multiband antennas	S7
83	324	1570945065	A Compact Planar Microstrip Patch Antenna in Commercial Ultra-Wideband Spectrum	Aamir Shafi Khan, Krishna Gorai and Surajit Kundu (National Institute of Technology Jamshedpur, India)	Ultra Wide Band and Multiband antennas	S7
84	342	1570945255	A Low Profile Annular Ring Shorted Logarithmic Spiral Antenna Offers Decade Bandwidth	Kush Parikh (Entuple Technologies, India); Ayush Seth (Entuple Technologies Private Limited, India)	Ultra Wide Band and Multiband antennas	S7
85	570	1570947675	Miniaturized Flexible UWB Antenna Design Using Double-Negative Metamaterial Structure With Enhanced Radiation Gain	Deepa Negi (Chitkara University Institute of Engineering and Technology & Chitkara University, Punjab, India); Aarti Bansal (Chitkara University Institute of Engineering and Technology, India & Chitkara University, Punjab, India)	Ultra Wide Band and Multiband antennas	S7
86	6	1570924339	Novel Metasurface Design With ϵ -Shaped Unit Cell for High Reflectivity and Wide Phase Range	Pooja Rawan Dhangar and Sidhartha Kumar Sahu (IIT Guwahati, India); Rakhesh Singh Kshetrimayum (Indian Institute of Technology Guwahati, India)	Metamaterials & Metasurfaces	S8A
87	76	1570939288	Polarization Independent Multi-Band Meta-Surface Absorber	Bright Riscob (Institute for Plasma Research, India); Rajan Babu (Institute For Plasma Research & Department of Atomic Energy, India); Abhishek Sinha, Varsha Siju and Surya Pathak (Institute for Plasma Research, India)	Metamaterials & Metasurfaces	S8A

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88	118	1570940319	Metasurfaces in Application to an Antenna With A Wide Field of View	Kirill Klionovski, Ruiqi Wang and Atif Shamim (King Abdullah University of Science and Technology, Saudi Arabia)	Metamaterials & Metasurfaces	S8A
89	229	1570943695	Transparent Metamaterial Absorber Fabrication by Pulsed-DC Magnetron Sputtering	Sudeb Bhattacharya, Hemadri Bandhu, J Ramkumar, Amit Verma and Kumar Vaibhav Srivastava (Indian Institute of Technology Kanpur, India)	Metamaterials & Metasurfaces	S8A
90	310	1570944982	A Conformal Wideband Metamaterial Absorber Integrated With Chip Resistor for Microwave Shielding in C- and X- Band Applications	Ravi Kumar Gangwar (IIT(ISM) Dhanbad, India); Aks Raj (Indian Institute of Technology (ISM) Dhanbad, India); Raghvendra Kumar Chaudhary (IIT Kanpur, India)	Metamaterials & Metasurfaces	S8A
91	316	1570945034	A Compact Dual-Band Linear-To-Circular Polarization Conversion Metasurface for X-Band and Ku-Band Applications	Vikas Vishnu Khairnar and Anusha U (VIT-AP University, India)	Metamaterials & Metasurfaces	S8A
92	383	1570945421	A 1-Bit Coding Reconfigurable Metasurface Reflector for Millimeter Wave Communications in E-Band	Deepak Kumar Sahoo (Indian Institute of Technology Roorkee, India); Chanchal Chakraborty (India); Ruchi Ruchi (Chandigarh University & IIT Roorkee, Thapar University, India); Debidas Kundu and Amalendu Patnaik (IIT Roorkee, India); Ajay Chakraborty (Techno India University, India)	Metamaterials & Metasurfaces	S8A
93	439	1570945604	Bandwidth-Enhanced Compact ENG Metamaterial Antenna for WLAN and X-Band Applications	Sandeep Kumar (BML Munjal University, India); Abhishek Pahuja (Koneru Lakshmaiah Education Foundation, India)	Metamaterials & Metasurfaces	S8A
94	507	1570945761	Circular Patch Impinged 4x4 Patch Metasurface Loaded, Dual Polarized, Wide-Band Antenna	Rishi Mishra and A. r. Harish (Indian Institute of Technology Kanpur, India)	Metamaterials & Metasurfaces	S8B
95	557	1570947527	Coded Metasurfaces for Two Dimensional Steering and Splitting of Incident Radiation	Malleboina Raju and Debdeep Sarkar (Indian Institute of Science, India)	Metamaterials & Metasurfaces	S8B
96	601	1570947787	Dual Band Metasurface Polarizer for LP to CP Conversion	Gaurav Kumar (SAC ISRO, India); Basudeb Ghosh (IIST, India); Vijay Kumar Singh (Co-author, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	Metamaterials & Metasurfaces	S8B
97	653	1570947899	Rotated Dual-Split Circular CSRR Loaded Homogeneous Metasurface Backed HOM Suppressed Polarization Diversified MPA	Swarnadipto Ghosh (Indian Institute of Space Science and Technology, Thiruvananthapuram, India); Samik Chakraborty (Jadavpur University, India); Chinmoy Saha (Indian Institute of Space Science and Technology, India & Royal Military College of Canada, Canada)	Metamaterials & Metasurfaces	S8B
98	662	1570947910	Cross-Correlated Tensor Surface Impedance Characterization of Orthogonally Discrete IMU & CMU for Impedance Modulated Metasurface	Swarnadipto Ghosh (Indian Institute of Space Science and Technology, Thiruvananthapuram, India); Chinmoy Saha (Indian Institute of Space Science and Technology, India & Royal Military College of Canada, Canada); Jawad Y Siddiqui (University of Calcutta, India & Royal Military College of Canada, Canada)	Metamaterials & Metasurfaces	S8B
99	695	1570948565	Design and Mathematical Modeling of Statistically Distributed Rotated Dual Split Elliptical CSRR Loaded SIW Antenna for Narrow Beam Highly Reduced SLL Based Sub-6 GHz Applications	Sneha Mukhopadhyay (MAKAUT, India); Swarnadipto Ghosh (Indian Institute of Space Science and Technology, Thiruvananthapuram, India); Ayona Chakraborty and Samik Chakraborty (Jadavpur University, India)	Metamaterials & Metasurfaces	S8B
100	704	1570950448	A Multiband Ultrathin Multifunctional Polarization Rotator Metasurface and Its Application in RCS Reduction	Soumendu Ghosh, Saiñbor Mukhim and Nerrisha Sohtun (National Institute of Technology Meghalaya, India); Abhishek Sarkhel (NIT MEGHALAYA, India)	Metamaterials & Metasurfaces	S8B
101	714	1570954967	Application of Metamaterials in mmWave 5G Antenna Designs	Ulrich L. Rohde (Brandenburg University of Technology, Germany); Karthikeya G S (BMS College of Engineering, India); Ajay K Poddar (Synergy Microwave Corporation, USA & Oradea University Romania, Romania); Shibani K Koul (Indian Institute of Technology Delhi, India)	Metamaterials & Metasurfaces	S8B
102	38	1570934443	Metasurface-Based Reconfigurable Intelligent Surface With Novel Comb-Shaped Unit Cell Design	Soumya Chakravarty, Poornima Surojia, Ritvika Sonawane and Tapas Chakravarty (Tata Consultancy Services Limited, India); Achanna Anil Kumar (TCS Innovation Labs, India); Rowdra Ghatak (National Institute of Technology Durgapur, India)	Reconfigurable Antennas and Intelligent Reflecting Surfaces	S9
103	59	1570938494	An AlGaAs Diode-Based Reconfigurable Intelligent Surface for mmWave Communication	Badisa Anil Babu (India); Madhav Boddapati (K L University, India); Krishnasamy Selvan (Sri Sivasubramaniya Nadar (SSN) College of Engineering, India)	Reconfigurable Antennas and Intelligent Reflecting Surfaces	S9
104	330	1570945089	Novel Reconfigurable Multiband Reflective Units Based on Minkowski Fractal Geometry	Hao Zheng Lu (Tongji University, China); Ajay K Poddar (Synergy Microwave Corporation, USA & Oradea University Romania, Romania); Ulrich L. Rohde (Brandenburg University of Technology, Germany); Mei Song Tong (Tongji University, China)	Reconfigurable Antennas and Intelligent Reflecting Surfaces	S9
105	394	1570945457	Null Steering Using Reconfigurable Intelligent Surfaces	Sumit Kumar, Rishi Mishra and A. r. Harish (Indian Institute of Technology Kanpur, India)	Reconfigurable Antennas and Intelligent Reflecting Surfaces	S9
106	411	1570945500	Circularly Polarized Pattern Reconfigurable Antenna Using Coding Metasurface	Vikas Vishnu Khairnar (VIT-AP University, India); Gandham V Vinod (VIT-AP University, Amaravati, Andhra Pradesh, India)	Reconfigurable Antennas and Intelligent Reflecting Surfaces	S9
107	460	1570945662	Ka-Band Circularly Polarized Square Ring-Shaped Slot Radiator for Active Integrated Phased Array Antenna	Raksha Ram (ISRO, India); Gaurav Kumar (SAC ISRO, India); Mevada Pratik (SAC (ISRO), India); Deepa Sharma (Space Applications Centre, India); Vijay Kumar Singh (Co-author, India); Sanjeev Kulshrestha (Space Application Centre, ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	Reconfigurable Antennas and Intelligent Reflecting Surfaces	S9
108	498	1570945746	A Miniaturized Polarization-Insensitive Reconfigurable Intelligent Surface for Beam Steering Applications	Aryan Rastogi, Patinavalasa Megh Sainadh and Saptarshi Ghosh (Indian Institute of Technology Indore, India)	Reconfigurable Antennas and Intelligent Reflecting Surfaces	S9

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109	597	1570947777	Reconfigurable Intelligent Surfaces With Suppressed Quantization Lobe for Arbitrary Reflection Angles	Sneha Gupta (Indian Institute of Technology, Jodhpur, India); Rachit Agnihotri and Soumava Mukherjee (Indian Institute of Technology Jodhpur, India)	Reconfigurable Antennas and Intelligent Reflecting Surfaces	S9
110	645	1570947888	Multi-Beam Generation for Simultaneous Scanning Using Timed Arrays With Reduced Pointing Error	Arjun Sadasivan and Prahannathan V (Indian Institute of Space Science and Technology, India); Gopika R (Indian Institute of Space Science & Technology, India); Chinmoy Saha (Indian Institute of Space Science and Technology, India & Royal Military College of Canada, Canada)	Phased Array Antennas	S1B
111	249	1570944492	Applying Neural Network for Extending Cavity Perturbation: Extraction of Complex Permittivity in Non-Linear Region	Ahmad Khusro (Indian Institute of Technology Kanpur, India); Zubair Akhter (Technical Fellow, Saudi Arabia & Kaust, Saudi Arabia); Atif Shamim (King Abdullah University of Science and Technology, Saudi Arabia); Abhishek K Jha (Gdańsk University of Technology, Poland); Mohammad Hashmi (Nazarbayev University, Kazakhstan)	Computational Electromagnetics	S10
112	266	1570944758	Computational Analysis of Two-Arm Resistively Loaded Spiral Antenna for SST-1 Tokamak	Dimple Yadav, Meenu Kaushik and Poonam Tiwari (Banasthali Vidyapith, India); Raj Singh (IPR Gandhinagar, India); Vishant Gahlaut (Banasthali Vidyapith, India)	Computational Electromagnetics	S10
113	338	1570945217	The Implementation of CPML for the Improved HIE-FDTD Method	Ankit Kumar Pandey (IIT JAMMU, India); Alok Kumar Kumar Saxena (IIT Jammu, India)	Computational Electromagnetics	S10
114	488	1570945730	Physics Embedded Neural Network (PENN) Architecture for Solving Maxwell's Equations Towards Accelerated Microwave Modeling	Pawan Gaire and Shubhendu Bhardwaj (University of Nebraska-Lincoln, USA)	Computational Electromagnetics	S10
115	7	1570924505	Substrate Integrated Waveguide Fed Stacked DRA for 5G NR FR2 Applications	Sidhartha Kumar Sahu (IIT Guwahati, India); Rakesh Singh Kshetrimayum and Ramesh Kumar Sonkar (Indian Institute of Technology Guwahati, India)	MIMO and 5G Antennas	S11A
116	28	1570931059	A Compact Tri-Sense Circularly Polarized MIMO DRA for UAV Satellite Communications	Patri Upender (NITW, India); Amarjit Kumar (National Institute of Technology Warangal, India)	MIMO and 5G Antennas	S11A
117	148	1570940701	Compact Circularly Polarized MIMO Dielectric Resonator Antenna for Complete X-Band Coverage	Ankita Harkare (Shri Ramdeobaba College of Engineering and Management, Nagpur, India); Mahesh P Abegaonkar (IIT Delhi, India); Ashwin Kothari (VNIT Nagpur, India); Ankit Bhurane (Visvesvaraya National Institute of Technology, India)	MIMO and 5G Antennas	S11A
118	228	1570943625	Hexagonal Shaped Metamaterial MIMO Patch Antenna for WiFi Applications	N Sivasankari (Mepco Schlenk, India); Mahesh P Abegaonkar (IIT Delhi, India)	MIMO and 5G Antennas	S11A
119	307	1570944974	Intrinsic Isolation in SIW-Based MIMO Antenna for 5G mmWave Applications	Ravi Kumar Gangwar (IIT(ISM) Dhanbad, India); Tripta Kumari (Indian Institute of Technology (ISM) Dhanbad, India); Raghendra Kumar Chaudhary (IIT Kanpur, India)	MIMO and 5G Antennas	S11B
120	381	1570945407	Circularly Polarized Perturbated Dielectric Resonator MIMO Antenna Coupled With Sectorized Ring-Shape Feeding for mmWave Applications	Ravi Kumar Gangwar (IIT(ISM) Dhanbad, India); Sanghmitra Sanghmitra (Indian Institute of Technology (ISM) Dhanbad, India); Raghendra Kumar Chaudhary (IIT Kanpur, India)	MIMO and 5G Antennas	S11B
121	406	1570945491	Additively Manufactured Dielectric Meta-Lens Antenna for Millimeter-Wave 5G Base-Stations	Suchitra Tiwari and Anant Kumar Jaiswal (Indian Institute of Technology Jammu, India); Amit Kumar Singh (IIT Patna, India); Ankit Dubey (Indian Institute of Technology Jammu, India)	MIMO and 5G Antennas	S11B
122	416	1570945513	SIW Cavity-Backed MIMO Antenna With Planar Excitation for Ku-Band Applications	Vaidehi C Nare (Indian Institute of Technology Kanpur, India); Sunil Kumar Sahoo, Raghendra Kumar Chaudhary and Animesh Biswas (IIT Kanpur, India)	MIMO and 5G Antennas	S11B
123	435	1570945576	T-Slot Patch Antenna Design for 5G Applications in Sub-6 GHz Band With Radome Analysis	Husna Naairah, Lakshminarayana Pollayi and Srujana Vahini Nandigama (Osmania University, India); Rama Krishna Dasari (Osmania University & University College of Engineering, India); Humaira Nishat (CVR College of Engineering, India)	MIMO and 5G Antennas	S11C
124	447	1570945631	A Multilayer Slot Coupled Multi-Element Monopole Radiator With End-Fire Radiation Pattern for mmWave Applications	Mohit Mishra (Indian Institute of Technology Kanpur, Kanpur, India); Rahul Sharma (IIT Guwahati, India); Raghendra Kumar Chaudhary (IIT Kanpur, India)	MIMO and 5G Antennas	S11C
125	454	1570945653	An Elliptical Shaped Wideband MIMO Terminal Antenna With Improved Isolation and Radiation Efficiency for 5G mmWave Applications	Richa Richa (IIT KANPUR, India); Raghendra Kumar Chaudhary (IIT Kanpur, India)	MIMO and 5G Antennas	S11C
126	465	1570945676	Low-Cost Small B5G Antenna of a Metamaterial Toughening the LoS Signal in Indoor Propagation	Sungtek Kahng and Jaewon Koh (Incheon National University, Korea (South)); Yejune Seo (Incheon National University, Korea (South)); Woogon Kim (Incheon National University, Korea (South)); Yeol In Moon (NISSHA & Korea, Korea (South)); Seongbu Seo (Incheon National University, Korea (South))	MIMO and 5G Antennas	S11C
127	476	1570945700	Microstrip Fed All Metal Lens Antenna - as a Power Transfer Medium for 5G Application	Basudev Majumder (IIT Bombay, India); Sarath Sankar Vinnakota (BITS Pilani Hyderabad Campus, India); Sreekavya M k and Basudeb Ghosh (IIST, India)	MIMO and 5G Antennas	S11C
128	509	1570945764	An UltraWideband Full Flexible 4 Elements DGS Based MIMO Antenna for Sub-6 GHz Wearable Applications	Bikash Chandra Sahoo (University Malaysia Perlis, Malaysia); Azremi Abdullah Al-Hadi (Universiti Malaysia Perlis, Malaysia); Saidatul Norlyana Azemi (Universiti Malaysia Perlis & Advanced Communication Engineering Centre of Excellence (CoE), Malaysia); Fwen Hoon Wee (Universiti Malaysia Perlis, Malaysia); Surentiran Padmanathan (ACE, UNIMAP, Malaysia); Che Muhammad Nor Che Isa (University of Malaysia Perlis, Malaysia); Sadia Afroz (Universiti Malaysia Perlis, Malaysia); Ping Jack Soh (University of Oulu & Katholieke Universiteit Leuven, Finland); Soumya Ranjan Mishra (Indira Gandhi Institute of Technology, India)	MIMO and 5G Antennas	S11C

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129	536	1570947232	Multistate Planar OAM Antenna for Reduced Inter-Modal Interference	Deepankar Shri gyan (Defence Institute of Advanced Technology, India); KP Ray (DIAT, Pune, India); GS Mani (JS College of engineering, India); Ajay K Poddar (Synergy Microwave Corporation, USA & Oradea University Romania, Romania)	MIMO and 5G Antennas	S11C
130	67	1570938948	A Holistic Near-Field Over-The-Air Approach for the Design, Testing, and Evaluation of Chip-Package-PCB-AiP Modules	Mo Shakouri (Microsanj LLC, USA); Sidina Wane (eV-Technologies, France)	MIMO and 5G Antennas	S11C
131	539	1570947271	Broadband Millimeter Wave MIMO Antennas at 28 GHz With Low Mutual Coupling Using Frequency Selective Surface Wall	Soumik Dey, Mannam Sree Keerthi and Sukomal Dey (Indian Institute of Technology Palakkad, India)	MIMO and 5G Antennas	S11D
132	556	1570947523	Isolation and Gain Enhancement of MIMO Diversity Antenna Using Metamaterial Absorber and Linear-To-Circular Polarization Converter	Mohammad Ameen (National University of Singapore, Singapore); Raghvendra Kumar Chaudhary (IIT Kanpur, India)	MIMO and 5G Antennas	S11D
133	566	1570947614	Automation of Printed MIMO Antenna Design Using MATLAB for 5G Applications	Debanurag Chakraborty and Kaushik Mandal (University of Calcutta, India)	MIMO and 5G Antennas	S11D
134	598	1570947778	A Compact Unidirectional Triple Circularly Polarized Antenna for Sub-6GHz 5G Application	Shyam Jash (NIT DURGAPUR, India); Rowdra Ghatak (National Institute of Technology Durgapur, India)	MIMO and 5G Antennas	S11D
135	614	1570947820	Multimode OAM Beams Generation Using Concentric UCA for Future Large-Capacity Wireless Communication Systems	Yuvraj Baburao Dhanade (Indian Institute of Technology Roorkee, India); Sanjeev Kulshrestha (Space Application Centre, ISRO, India); Amalendu Patnaik (IIT Roorkee, India)	MIMO and 5G Antennas	S11D
136	621	1570947845	A Low-Cost Dual Band Integratable Antenna for Sub-6GHz Applications	Yue Jiang (The University of Sydney, Australia); Umair Rafique (University of Oulu, Finland); Shobit Agarwal (Indian Institute of Technology, Roapr, India); Mahyar Shirvanimoghaddam (University of Sydney, Australia); Syed Muzahir Abbas (Macquarie University, Australia)	MIMO and 5G Antennas	S11D
137	641	1570947882	Enhancing Transmitter Efficiency for 5G MIMO Beamforming Application	Shipra Shipra (Indian Institute of Technology, Roorkee, India); Meenakshi Rawat (IIT Roorkee, India)	MIMO and 5G Antennas	S11D
138	19	1570928612	Millimeter-Wave Multilayered Design of Rectangular Metal Waveguide-Based Slotted Antenna	Hazem Mohammad Al Shibly and Utpal Dey (Indian Institute of Technology Roorkee, India)	Millimeter wave technologies	S12A
139	207	1570942632	Recent Advances in Multi Frequency Quasi-Optics for Millimetre-Wave Earth Observation Applications	Richard Wylde (St Andrews University, United Kingdom (Great Britain)); Adam L Woodcraft (Thomas Keating Ltd., United Kingdom (Great Britain)); Soe Tun (SMT Consultancies Ltd, United Kingdom (Great Britain)); Janet Charlton (JCR Systems Ltd, Italy)	Millimeter wave technologies	S12A
140	234	1570944120	Compact Lightweight Wideband Multi-Channel Millimetre-Wave Self-Sufficient Down Converter	Mahadev Sarkar (Product Development and Innovation Centre & Bharat Electronics Limited, India)	Millimeter wave technologies	S12A
141	297	1570944946	Millimeter-Wave Single Feed Dual-Polarized Air-Filled SIW Slotted Antenna Array	Inapurapu Suryarajitha (Indian Institute of Technology, Roorkee, India); Rajib Kumar Panigrahi (Associate Professor, India); M. Kartikeyan (Indian Institute of Technology Roorkee, India)	Millimeter wave technologies	S12A
142	401	1570945483	Millimeter-Wave Stripline Fed Dielectric Resonator Antenna With Assembly Features	Ajay Singh Berwal and Utpal Dey (Indian Institute of Technology Roorkee, India)	Millimeter wave technologies	S12B
143	533	1570947171	HEM and TM Excitation Modes for a Three-Port Wideband MIMO Cylindrical Dielectric Resonator Antenna at a mm-Wave Frequency	Gokularaman Baskar (Anna University CEG, India); Rangasamy Palanisamy (Anna University, India)	Millimeter wave technologies	S12B
144	544	1570947407	Design and Optimization of BiCMOS SiGe PA for Millimeter-Wave Applications	Sujata Ghosh (Globalfoundries, India); Santosh Kumar Gedela (GlobalFoundries, India); Nidhi Pandit and Venkata Narayana Rao Vanukuru (Globalfoundries, India)	Millimeter wave technologies	S12B
145	46	1570936002	Indigenous Development of 15kW RF Power Amplifier for 1.5T MRI Scanner	Tapas K Bhuiya (SAMEER, India); Rajesh Harsh (Society For Applied Microwave Electronics Engineering and Research, India); Bhaskara Naik (Society for Applied Microwave Electronics and Engineering Research(SAMEER), India)	Amplifiers and High Power Microwave Devices	S13A
146	112	1570940242	Ku-Band GaN High Power Amplifier	Madhumita Chakravarti (Indian Institute of Technology Hyderabad, India & Defence Research and Development Organisation, India); Yoganand K Varma (Astra Microwave Private Limited, India); Ashudeb Dutta (Indian Institute of Technology Hyderabad, India)	Amplifiers and High Power Microwave Devices	S13A
147	116	1570940292	X-Band GaN Power Amplifier for Weather Radar Applications	Ojjapally Sriraman (IISc Bangalore, India); Gaurab Banerjee (Indian Institute of Science, India)	Amplifiers and High Power Microwave Devices	S13A
148	122	1570940415	High Efficiency and High Linearity GaN Power Amplifier With Harmonic Tuning and Fundamental Matching Networks	Mohammad Zaid (Indian Institute of Technology, Kanpur, India); Ahtisham UI Haq Pampori (Indian Institute of Technology Kanpur, India); Mohammad Sajid Nazir (IIT Kanpur, India); Yogesh Chauhan (Indian Institute Of Technology, India)	Amplifiers and High Power Microwave Devices	S13A
149	124	1570940514	Design of Radio Frequency Power Amplifier Module at C-Band for Data Communication Link	Nupur Sood (IIT Roorkee, India); Pinaki Sen (Defence Electronics Applications Laboratory & DRDO, India); Karun Rawat (Indian Institute of Technology Roorkee, India)	Amplifiers and High Power Microwave Devices	S13A
150	135	1570940613	Analysis of Pseudospark-Driven Electron Beam Generation and Its Propagation Inside High-Power THz BWO	Prerna Unadkat (Academy of Scientific & Innovative Research (AcSIR) & CSIR - Central Electronics Engineering Research Institute (CEERI), India); Piyush Priya (Birla Institute of Technology and Science, India); Niraj Kumar (CSIR-Central Electronics Engineering Research Institute & Academy of Innovative and Scientific Research, India)	Amplifiers and High Power Microwave Devices	S13A

S.No	Paper ID (Short)	Paper ID (Global)	Paper Title	Authors with Affiliation and Country	Track	Session
151	175	1570940929	Design of 30W GaN V/UHF Broadband Power Amplifier Using Simulated Load-Pull Contours	Kushan Chakraborty (Bharat Electronics Limited, India); Sion P and L S Sudhakara Sarma (Bharat EElectronics Limited, India)	Amplifiers and High Power Microwave Devices	S13A
152	177	1570940955	GaN HEMT-Based Wideband Power Amplifier Integrated Antenna	Yashika Chauhan and Deepika Sipal (Delhi Technological University, India)	Amplifiers and High Power Microwave Devices	S13A
153	268	1570944765	Design of Couplers Incorporating Fabrication Limitations for Helix TWT	Aashka Oza and Jitender Singh (Space Applications Centre, India); Ambrish Ghadiya (SAC, ISRO, India); Santhosh Kumar Ramagiri (Space Applications Centre, India); Shilpi Soni (Space Applications Centre & ISRO, India)	Amplifiers and High Power Microwave Devices	S13B
154	271	1570944777	Optimization of Beam Shaver Section for Helix TWT	Jitender Singh, Aashka Oza and Santhosh Kumar Ramagiri (Space Applications Centre, India); Ambrish Ghadiya (SAC, ISRO, India); Shilpi Soni (Space Applications Centre & ISRO, India)	Amplifiers and High Power Microwave Devices	S13B
155	426	1570945551	Design of Water-Cooling Jacket for Multi-Stage Depressed Collector of High-Power Travelling Wave Tube Applications	Chirag Prakashchandra Mistry (CSIR-Central Electronics Engineering Research Institute, Pilani, Rajasthan, India); Amitavo Choudhury (CSIR-CEERI Pilani, India); Sanjay Ghosh (Senior Principle Scientist, India)	Amplifiers and High Power Microwave Devices	S13B
156	592	1570947767	Compact and High Efficiency UHF SSPA for Communication Satellites	Anant Sharma (Space Applications Centre & ISRO, India); Prolay Verma (Space Applications Centre (ISRO) & Indian Space Research Organisation, India); Puja Srivastava and Jayesh Thakkar (SAC, ISRO, India)	Amplifiers and High Power Microwave Devices	S13B
157	602	1570947788	Computer Aided Design of Low Chirp 32W Pulsed IMPATT Oscillator at W Band	Sukhendu Bhanja (Scientist, India); Mousumi Sarkar (SAMEER Kolkata Center, India); Arijit Majumder (SAMEER, Kolkata Center, India); Tapas Kumar Pal (Scientist, India)	Amplifiers and High Power Microwave Devices	S13B
158	654	1570947901	A kW-Range Solid-State Power Amplifier Design for OTH Radar's Transmitter Application	Chiranjit Majumder (Indian Institute of Space Science and Technology, India); Basudev Majumder (IIT Bombay, India); Basudeb Ghosh (IIST, India)	Amplifiers and High Power Microwave Devices	S13B
159	679	1570947929	Development of Gallium Nitride Based S-Band 220W Solid State Power Amplifier	Shashi Kant Pandey (Space Applications Centre, India); Prolay Verma (Space Applications Centre (ISRO) & Indian Space Research Organisation, India); Puja Srivastava and Jayesh Thakkar (SAC, ISRO, India)	Amplifiers and High Power Microwave Devices	S13B
160	688	1570948045	Ka-Band Dual-Anode Electron Gun, Beam Focusing System and SWS for Space Applications	Amitavo Choudhury (CSIR-CEERI Pilani, India); Subhradeep Chakraborty (CSIR-CEERI, Pilani, india, India); Chirag Prakashchandra Mistry (CSIR-Central Electronics Engineering Research Institute, Pilani, Rajasthan, India); Sanjay Ghosh (Senior Principle Scientist, India)	Amplifiers and High Power Microwave Devices	S13B
161	703	1570950443	Design and Analysis of 25 kW(CW) Millimeter Wave Source With External Waveguide Mode Converters for Advance Material Heating/Processing	Hasina Khatun (CSIR-Central Electronics Engineering Research Institute, India); Nitin Kumar (Technical Officer, India); Alok Mishra (IIT ROORKEE & CSIR CEERI PILANI, India); Anirban Bera (CEERI Pilani, India)	Amplifiers and High Power Microwave Devices	S13C
162	705	1570950495	High Power RF & Microwave Tube Based Heating Systems at IPR and Its Applications to Plasma	Braj Kishore Shukla, Sr. (INSTITUTE FOR PLASMA RESEARCH, India); Promod K Sharma (IPR Gandhinagar Homi Bhabha National Institute Traning School Complex, India); S. Laxmikant Rao, Sunil Kumar, Rajesh Trivedi and Kishore Mishra (Institute for Plasma Research, India)	Amplifiers and High Power Microwave Devices	S13C
163	706	1570950560	High Power RF Systems of LEHIPA - Technology Development	Manjiri Pande (Bhabha Atomic Research Centre, India); Sandip Shrotriya (Bhabha Atomic Reseach Centre, Mumbai, India); Shiju A, Niranjn Patel, Shyam Sunder Jena and Gopal Joshi (Bhabha Atomic Research Centre, India)	Amplifiers and High Power Microwave Devices	S13C
164	42	1570935741	Concurrent Triple Band Complex to Real Impedance Transformer for RF Applications	Shadab Rabbani (MIT Muzaffarpur, India); Shriman Narayana (Indian Institute of Information Technology Surat, India); Yatendra Singh (IIT Patna, India)	Passive Components & RF Circuits	S14A
165	43	1570935796	Dual Band Complex to Real Impedance Matching Through Dual Band Quarter Wave Transformer	Shadab Rabbani (MIT Muzaffarpur, India); Shriman Narayana (Indian Institute of Information Technology Surat, India); Yatendra Singh (IIT Patna, India)	Passive Components & RF Circuits	S14A
166	52	1570937383	A Temperature Compensated Light Weight Coaxial Band Pass Filter for Aero-Space Applications	Manoj Kumar and Gowrish Basavarajappa (Indian Institute of Technology Roorkee, India)	Passive Components & RF Circuits	S14A
167	107	1570940185	A Novel Compact Low-Loss Closely Spaced Dual-Band Filter for Wireless Communications	Prantik Dutta (NIT WARNGAL, India); Arun Kumar Gande (NIT Warangal, India); Gopi Ram (National Institute of Technology, Warangal, India); D. Suneel Varma (NIT WARANGAL, India)	Passive Components & RF Circuits	S14A
168	197	1570941347	Compact Water-Based Microstrip Filters	Keerthipriya Sathish (Raman Research Institute & Indian Institute of Science, India); Arasi Sathyamurthy (Raman Research Institute, India); Raghunathan A (RRI, India); Nagaraja H N (Raman Research Institute, India); Avinash Deshpande (Inter-University Center for Astronomy and Astrophysics, India); Shiv Sethi (Raman Research Institute, India)	Passive Components & RF Circuits	S14A
169	319	1570945041	Coupled Line Wide Stop Band Diplezer Using Stepped Impedance Resonator	Anindya Ghosh (Robert Bosch, India); Debashish Chakravarty (Indian Institute of Technology Kharagpur, India); Ajay Chakrabarty (Indian Institute of Technology, Kharagpur, India)	Passive Components & RF Circuits	S14A
170	357	1570945319	High Dynamic Range Monopulse IF Receiver for an Airborne Radar	Veerendra Mittapally (Research Centre Imarat, India)	Passive Components & RF Circuits	S14A

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171	359	1570945324	Design & Development of Microwave Drop - in - Isolator (1.8 - 2.0 GHz) for Space Applications	Ch Murali Krishna, Varaprasad Rayudu and Chandrashekar Mariyappa (Rakon India Private Limited, India); Harish V. Dixit (BITS Pilani Hyderabad Campus, India)	Passive Components & RF Circuits	S14A
172	412	1570945502	Design of Superconducting Coplanar Waveguide Rat-Race and Branch Line Coupler for Circuit Quantum Electrodynamics	Jagmohan Singh and Darshak K Bhatt (Indian Institute of Technology Roorkee, India)	Passive Components & RF Circuits	S14B
173	419	1570945527	Design and Analysis of an Ultra-Wideband Equal Magnitude and Out-Of-Phase Power Divider	Sandeep Rana (IIT Roorkee, Uttarakhand, India); Akhilesh Mohan (Indian Institute of Technology Roorkee, India)	Passive Components & RF Circuits	S14B
174	422	1570945539	Design of Non-Quadrature Branch Line Coupler With Unequal Power Division Using Asymmetric T-Structure	Abhishek Kumar (National Institute of Technology Rourkela, India); Rakesh Sinha (National Institute of Technology, Rourkela, India)	Passive Components & RF Circuits	S14B
175	440	1570945611	Substrate Integrated Waveguide Filter Based on Inductive Post Design	Hemendra Kumar Pandey (Variable Energy Cyclotron Centre & Homi Bhabha National Institute, DAE, Mumbai, India); Govind Kumar Mishra (IIT Roorkee, India); Nagendra P Pathak (Indian Institute of Technology Roorkee, India)	Passive Components & RF Circuits	S14B
176	482	1570945713	A Miniaturized Three Way Equal Power Divider With Multiple Harmonics Suppression	Dhruba Das (SAMEER, India); Raumik Manna (SAMEER-MEITY, India)	Passive Components & RF Circuits	S14B
177	529	1570946954	An Alternative Approach for Microwave Circuit Design and Analysis Using Fully Symmetrical Planar Smith Chart	Hemant Kumar (National Institute of Technology Tiruchirappalli, India & IIT Bombay, India)	Passive Components & RF Circuits	S14B
178	531	1570946990	A Miniature Selective Bandpass Filter With Frequency-Variant Couplings Realized Using Uniform-Impedance Quarter-Wave Resonators	Vinay Bharat Narayane and Girish Kumar (IIT Bombay, India)	Passive Components & RF Circuits	S14B
179	581	1570947731	Dual Channel Diplexer Based on Stepped Impedance Filter and Microstrip Open-Loop Resonator	Shilpi Ruchi Kerketta (IISc Bangalore, India); K Vinoy (IISc, India)	Passive Components & RF Circuits	S14B
180	66	1570938925	Design of Miniaturized Ku-Band Front End for Satellite Command Receiver	Deepankar Roy (Udupi Ramachandra Rao Satellite Centre, India)	Active Components, RFIC & MMIC devices	S15A
181	99	1570939842	Design and Realization of Multi-Output, Ka-Band Frequency Synthesizer With High Output Power	Anamiya Bhattacharya (Indian Space Research Organization, India); Shrija Bhattacharyya (Space Applications Centre, ISRO, India); Latheef Shaik (Space Applications Centre, India); Mahendra P Bhadoria (Space Applications Centre, ISRO, India); Harshita Tolani (Indian Space Research Organization, India); Prantik Chakraborty (SAC ISRO, India)	Active Components, RFIC & MMIC devices	S15A
182	121	1570940407	Design and Development of a Ku-Band MMIC Transmit Receive Front End Chip	Parul Gupta (SSPL, India); Mohd Imran (Solid State Physics Laboratory (SSPL), India); Meena Mishra (Scientist F, India)	Active Components, RFIC & MMIC devices	S15A
183	164	1570940809	Analysis of Power Combiner Architecture for Push-Pull Transistors With On-Chip and On-Board Coupling	S Indumathi (Central Research Laboratory & Bharat Electronics Limited, India); Kushan Chakraborty (Bharat Electronics Limited, India); Sion P (Bharat Electronics Limited, India)	Active Components, RFIC & MMIC devices	S15A
184	167	1570940839	A Multi-Octave High Linearity Broadband MMIC Amplifier With Active Bias Circuit for Gain Requirements	Satish Kumar Konderu (Bharat Electronics Limited, Bengaluru, India)	Active Components, RFIC & MMIC devices	S15A
185	267	1570944759	Ultra Wideband Reflective SP4T Switch Using MMIC Discrete Components' Topology	Raghu B R (Bharath Electronics Ltd., India)	Active Components, RFIC & MMIC devices	S15A
186	289	1570944891	Realisation Aspects of SWaP Optimised RF Front-End Using Multi Function Modules	Lalitha Saripaka (DLRL-Defence Research and Development Organisation & University of Hyderabad, India); Abhilash Thumiki (DLRL and University of Hyderabad, India); James Raju K c (University of Hyderabad, India)	Active Components, RFIC & MMIC devices	S15A
187	312	1570945018	Design of a Wideband Digital Attenuator MMIC Over 1 to 10 GHz	Yudhbir and Ravi Khatri (Space Applications Centre, India); Jolly Dhar (Space Applications Centre, ISRO, India); Cvn Rao (Space Applications Centre (ISRO), India)	Active Components, RFIC & MMIC devices	S15A
188	327	1570945080	Design of Single-Ended and Differential Power Amplifiers Using SiGe HBT for SATCOM Applications	Santosh Kumar Gedela and Binoy Kumar Paul (GlobalFoundries, India); Venkata Narayana Rao Vanukuru (Globalfoundries, India)	Active Components, RFIC & MMIC devices	S15B
189	347	1570945276	A High-Gain Ku-Band Low Noise Amplifier (LNA) With Ultra-Low Noise Figure	Kirti Kirti (IIT (BHU), Varanasi, India); Shivam Verma (IIT BHU, Varanasi, India); Somak Bhattacharyya (IIT (BHU), India)	Active Components, RFIC & MMIC devices	S15B
190	349	1570945279	Study of Variation in Insertion Loss and Isolation on Indigenous GaN HEMT Switch as a Function of Device Geometry	Reeta Reeta and Sudhir Kumar (Solid State Physics Laboratory, India); S K Tomar (SSPL, India); Meena Mishra (Scientist F, India); D S Rawal and A A Naik (Solid State Physics Laboratory, India)	Active Components, RFIC & MMIC devices	S15B
191	350	1570945280	Design of Monolithic IQ Mixer Using UMS PH25 GaAs Process at 5400±125 MHz	Gourav Agrawal (ISRO & SAC-ISRO, India); Piyush Sinha (Space Application Centre, India); Jolly Dhar (Space Applications Centre, ISRO, India); Cvn Rao (Space Applications Centre (ISRO), India)	Active Components, RFIC & MMIC devices	S15D
192	375	1570945396	1-18 GHz Low Insertion Loss, High P1db and High Isolation SPDT Switch With Integrated on Chip Driver	Ashish Jindal (DRDO, India); Shibani K Koul (Indian Institute of Technology Delhi, India); Karun Rawat (Indian Institute of Technology Roorkee, India); Ananjan Basu (Indian Institute of Technology, Delhi, India)	Active Components, RFIC & MMIC devices	S15B

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193	400	1570945481	A Precision LTCC Based CPWG-SL-CPWG DC-Ku Band Transition	Harimohan Singh (Space Applications Centre, ISRO Ahmedabad, India); Santanu Sinha (Space Applications Centre, ISRO, Ahmedabad, India); Pabolu Viswambhara (, India & Space Applications Centre, ISRO, India); Punam Tyagi (Space Applications Centre, India)	Active Components, RFIC & MMIC devices	S15C
194	409	1570945497	A Ku-Band 195.3 dB Peak FoM LCVCO Using Bulk-CMOS High-Q Inductor	Kuppireddy VasudevaReddy (IP Design Engineering & GlobalFoundries, India); Indranil Som and Vaibhav Ruparelia (Global Foundries, India)	Active Components, RFIC & MMIC devices	S15B
195	420	1570945533	Wideband and Efficient Doherty Power Amplifier in n78 C-Band	Dushyant Kumar Sharma and Karthik Rudramuni (Wipro Limited, India); Ahmad Zakaria Ahmad (IIT Roorkee, India); Mohammad Abdul Shukoor and Karun Rawat (Indian Institute of Technology Roorkee, India)	Active Components, RFIC & MMIC devices	S15B
196	424	1570945549	Microwave Active Resonator for High-Resolution Sensing Applications	Apala Banerjee (Indian Institute of Technology, India); Debabrata Banerjee, Abhishek Kumar and Mohammad Jaleel Akhtar (Indian Institute of Technology Kanpur, India)	Active Components, RFIC & MMIC devices	S15C
197	429	1570945558	Design and Development of C-Ku Wideband MMIC Power Amplifier Using 250nm GaN HEMT Process	Parul Gupta (SSPL, India); Mohd Imran (Solid State Physics Laboratory (SSPL), India); Meena Mishra (Scientist F, India)	Active Components, RFIC & MMIC devices	S15C
198	433	1570945573	Design of pHEMT Based MMIC Frequency Multiplier With On-Chip ESD Protection	Rahul Menon and Ramalakshmi N (ISRO, India); Suman Valke (URSC, Bangalore, India); Venkata D Ramana (ISRO, India)	Active Components, RFIC & MMIC devices	S15C
199	441	1570945612	Methodology to Design a CCF-1 Ku Band GaN MMIC PA With Nonlinear Output Capacitance	Yericharla Mary Asha Latha and Karun Rawat (Indian Institute of Technology Roorkee, India)	Active Components, RFIC & MMIC devices	S15C
200	448	1570945639	K-Band GaN Based Solid State Power Amplifier for Space Applications	Tanvi Dabas (Space Applications Centre, ISRO, India); Abhay Jain (Space Applications Centre, India); Puja Srivastava and Jayesh Thakkar (SAC, ISRO, India)	Active Components, RFIC & MMIC devices	S15C
201	457	1570945658	High Isolation Ka-Band Multi-Port PIN Diode MMIC Switches	Anshul Joshi (Space Applications Centre & Indian Space Research Organisation, India); Prolay Verma (Space Applications Centre (ISRO) & Indian Space Research Organisation, India); Puja Srivastava and Jayesh Thakkar (SAC, ISRO, India)	Active Components, RFIC & MMIC devices	S15C
202	467	1570945678	A Novel Interference-Based Approach for Harmonic Suppression in Microwave Frequency Doublers	Debabrata Banerjee (Indian Institute of Technology Kanpur, India); Apala Banerjee (Indian Institute of Technology, India); Mohammad Jaleel Akhtar (Indian Institute of Technology Kanpur, India)	Active Components, RFIC & MMIC devices	S15C
203	473	1570945689	Design and Development of Linearized Channel Amplifier (LCAMP) at S-Band	Chandra Kiran Anem (Space Applications Centre & ISRO, India)	Active Components, RFIC & MMIC devices	S15B
204	485	1570945719	Output Power and Efficiency Improvement of a Class C Power Amplifier	Mahima Patel (Indian Institute of Technology Kharagpur & West Bengal, India); Mrinal Kanti Mandal (Indian Institute of Technology, Kharagpur, India); Debarati Sen (Indian Institute of Technology Kharagpur, India)	Active Components, RFIC & MMIC devices	S15D
205	579	1570947721	Wideband Multi-Channel RF Selection Unit	Gaurav Anand (Bharat Electronic Limited, India); Harikrishna M V (Bharat Electronics Ltd, India)	Active Components, RFIC & MMIC devices	S15D
206	586	1570947746	High Yield Design of an on Chip X-Band Power Divider Based on GaAs IPD Technology	Anil Kumar Gupta (Space Applications Centre-ISRO, India); Shruti Sinha (SAC, ISRO Ahmedabad, India); Jolly Dhar (Space Applications Centre, ISRO, India)	Active Components, RFIC & MMIC devices	S15D
207	606	1570947801	Exploring Class B/J Continuum for Doherty Power Amplifier Design at n78 5G Band	Ahmad Zakaria Ahmad (IIT Roorkee, India); Mohammad Abdul Shukoor and Karun Rawat (Indian Institute of Technology Roorkee, India); Dushyant Kumar Sharma (Wipro Limited, India)	Active Components, RFIC & MMIC devices	S15D
208	610	1570947809	Design and Simulation of a Compact, High Gain and High P1dB MMIC Based Low Noise Amplifier at V-Band	Bijit Biswas (SAMEER, India); Paramita Banerjee (Scientist, India)	Active Components, RFIC & MMIC devices	S15B
209	678	1570947927	A Low Power CMOS Wide Band Active Inductor Based PLL at L and S Band	Pankaj Sandip Bhavsar (Space Applications Centre, Indian Space Research Organization & Indian Institute of Technology, Bombay, India); Jolly Dhar (Space Applications Centre, ISRO, India); Cvn Rao (Space Applications Centre (ISRO), India)	Active Components, RFIC & MMIC devices	S15D
210	684	1570947935	A 60 GHz Transformer Coupled Low Power Quadrature VCO Using Ring Inductor	Sanjeev Kumar (Indian Institute of Technology, Delhi, India); Shouri Chatterjee and S Koul (IIT Delhi, India)	Active Components, RFIC & MMIC devices	S15D
211	715	1570955127	Möbius-Coupled SRR (Split Ring Resonator) Oscillator Extends High-Performance Signal Generations Into K-Band	Ajay K Poddar (Synergy Microwave Corporation, USA & Oradea University Romania, Romania); Ulrich L. Rohde (Brandenburg University of Technology, Germany); Anisha Apte (Synergy Microwave Corporation, India); Karthikeya G S (BMS College of Engineering, India); Shibani K Koul (Indian Institute of Technology Delhi, India)	Active Components, RFIC & MMIC devices	S15D
212	45	1570935982	Leaky Wave Antenna on a Half-Mode Integrated Digitated Capacitor-Based Corrugated Substrate Integrated Waveguide With Tilted Vertical Slots	Aakash Bansal and William Whittow (Loughborough University, United Kingdom (Great Britain))	SIW Technology	S16A
213	89	1570939590	A Signal Elevated CPW Line Using SU-8 Core for RF Applications	Aamir Saud Khan (IIT Delhi, India); Pranav Srivastava (IIT DELHI HAUZ KHAS, India); Bhaskar Mitra (IIT Delhi, India)	SIW Technology	S16A

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214	98	1570939837	Asymmetric Stub Loaded HMSIW Leaky-Wave Antenna for Continuous Scanning Through Broadside	Ayaz Ahmad and Shanu Kumar (Indian Institute of Technology Bombay, India); Urvashi Singh (Indian Institute of Technology Bombay, India & IPDF, India); Vishakha (Indian Institute of Technology, Bombay, India); Jayanta Mukherjee (Indian Institute of Technology Bombay, India)	SIW Technology	S16A
215	173	1570940902	Dual Band Substrate Integrated Waveguide (SIW) Filter With High Rejection and Selectivity	Arani Ali Khan (Indian Institute of Technology Jodhpur, India); Ajay Gupta (Indian Institute of Technology jodhpur, India)	SIW Technology	S16A
216	221	1570943397	Symmetrical Beam Pattern Generation of Open-Ended Waveguide With Enhanced Gain Using an Elliptical Dielectric Sandwiched Groundplane	Anil Kumar Yerrola (International Institute of Information Technology, India); Maifuz Ali (DSPM IIIT Naya Raipur, India); Ravi Kumar Arya (Zhongshan Institute of Changchun University of Science and Technology, China); Lakhindar Murmu (DSPM IIIT NR, India)	SIW Technology	S16B
217	585	1570947745	Design of Simple Broadband Millimeter-Wave Monopole Antenna Using Substrate Integrated Coaxial Line (SICL) Technology	Amar Dattatray Chaudhari (Indian Institute of Technology Delhi (IIT Delhi), India); Anjana Krishna (Indian Institute of Technology Jodhpur (IIT Jodhpur), India); Soumava Mukherjee (Indian Institute of Technology Jodhpur, India)	SIW Technology	S16B
218	608	1570947807	Study of a Low Profile Substrate Integrated Waveguide Based Bidirectional Dual Beam Array Antenna	Subarna Ranjit (IEST, Shibpur, Kolkata, India); Satyajit Chakrabarti (SAMEER Kolkata, India); Susanta Kumar Parui (Bengal Engineering and Science University, India)	SIW Technology	S16B
219	35	1570933606	Instant In-Situ Non-Destructive Measurement of Brix/Concentration of Sugar Syrup Using Microwaves for Sugar Industry	Tapas K Bhuiya (SAMEER, India); Rajesh Harsh (Society For Applied Microwave Electronics Engineering and Research, India); Naresh Panchal (SAMEER, India)	RF Sensors & Non-Destructive Testing methods	S17
220	182	1570940990	A Study on Contactless Flexible Antenna-Based Motion Sensor for Smart Wireless Communication	Battina Sindhu (Birla Institute of Technology & Science, Pilani, Hyderabad Campus, India); Yaras Chandra Gandhi (Birla Institute of Technology and Science, Pilani, India); Parikshit Sahatiya (Birla Institute of Technology and Science Pilani Hyderabad Campus, India); Sourav Nandi (Birla Institute of Technology and Science, Pilani, Hyderabad Campus, India)	RF Sensors & Non-Destructive Testing methods	S17
221	365	1570945348	Review of Concealed Object Detections Using RF Imaging Over UWB Regime for Security Applications	Sukomal Dey and Athul O Asok (Indian Institute of Technology Palakkad, India)	RF Sensors & Non-Destructive Testing methods	S17
222	398	1570945476	Real-Time Structural Surface Cracks Monitoring Using SRSR-Based Microwave Sensor	Fateh Lohar (Visvesvaraya National Institute of Technology Nagpur Nagpur, India); Neeraj Rao (Visvesvaraya National Institute of Technology Nagpur, Maharashtra & Ministry of Human Resource and Development, India)	RF Sensors & Non-Destructive Testing methods	S17
223	693	1570948489	Metallic Crack Detection Using Chipless RFID Single-Bit Sensor Tag	Hafsa Anam (Macquarie University, Australia); Umair Rafique (University of Oulu, Finland); Shobit Agarwal (Indian Institute of Technology, Roapr, India); Syed Muzahir Abbas and Subhas Mukhopadhyay (Macquarie University, Australia)	RF Sensors & Non-Destructive Testing methods	S17
224	58	1570938160	Additive Manufacturing Enabling Radio Frequency Identification and Wireless Sensing	Simone Genovesi, Filippo Costa, Mahmoud Elgeziry, Sandra Rodini and Daniela Gasperini (University of Pisa, Italy); Armin Gharibi (University of Pisa & CROSSLAB, Italy); Suvadeep Choudhury and Giuliano Manara (University of Pisa, Italy)	Fabrication, Packaging and 3D printing	S18A
225	139	1570940636	Fabrication Error Study of W-Band Planar Beam-Wave Interaction Structure	Monodipa Sarkar (Academy of Scientific and Innovative Research, India & CSIR-Central Electronics Engineering Research Institute, India); Niraj Kumar (CSIR-Central Electronics Engineering Research Institute & Academy of Innovative and Scientific Research, India)	Fabrication, Packaging and 3D printing	S18A
226	201	1570941860	Development of Microwave Magnetic Components Using LTCC Technology With Embedded Barium Hexaferrite Material	Sai Haranadh Akkapanthula, Chaitanya kumar J, Yashwanth Sanaboyina and Srujana Kagita (IIT Tirupati, India)	Fabrication, Packaging and 3D printing	S18A
227	298	1570944947	Design & Development of LTCC Multi-Layer Lowpass Filter at 2.25GHz	Srishti Srivastava (Indian Space Research Organization, India); Shruti Sinha (SAC, ISRO Ahmedabad, India); Jolly Dhar (Space Applications Centre, ISRO, India); Cvn Rao (Space Applications Centre (ISRO), India)	Fabrication, Packaging and 3D printing	S18A
228	387	1570945433	3D Printed Conformal MIMO Antenna With Ladder Shaped Isolating Structure for Wireless Applications	Jayshri S Kulkarni (Baylor University, USA); Upesh Patel and Trushit Upadhyaya (Charotar University of Science and Technology, India); Jaume Anguera (Ignion & Universitat Ramon Llull, Spain); Brian Garner and Yang Li (Baylor University, USA)	Fabrication, Packaging and 3D printing	S18A
229	442	1570945613	Precision Thin Film Metallization for Space-Borne SAW Narrow Band Pass Filters Using E-Beam Evaporation	Chiranjit Karmakar (Space Application Centre (ISRO), India); Santanu Sinha (Space Applications Centre, ISRO, Ahmedabad, India)	Fabrication, Packaging and 3D printing	S18B
230	462	1570945667	3D Printed Broadside Coupled H-Guide Based Directional Coupler at Sub-THz Frequency	Nagendra P Pathak (Indian Institute of Technology Roorkee, India); Arpit Kumar Baranwal (IIT ROORKEE, India); Akhilesh Mohan (Indian Institute of Technology Roorkee, India)	Fabrication, Packaging and 3D printing	S18B
231	499	1570945747	Development of LTCC Based Inductors With Barium Hexaferrite Nanoparticles	Chaitanya kumar J, Yashwanth Sanaboyina, Sai Haranadh Akkapanthula and Srujana Kagita (IIT Tirupati, India)	Fabrication, Packaging and 3D printing	S18B
232	514	1570946001	3-D Printed Compact Singlet With Wide Stopband	Iqram Haider (IIT Delhi, India); Ananjan Basu (Indian Institute of Technology, Delhi, India); Shibban K Koul (Indian Institute of Technology Delhi, India)	Fabrication, Packaging and 3D printing	S18B
233	549	1570947479	Achieving Spaceworthiness for Large-Size LTCC Packaging of Microwave MCM	Ishwarlal Prajapati (Space Applications Centre (ISRO), India); Ravindra K Hegde (Space Applications Centre ISRO, India); Shilpa Pandya and Ajay Kumar Lal (Space Applications Centre (ISRO), India)	Fabrication, Packaging and 3D printing	S18B

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234	563	1570947584	Wafer Level Packaging for Millimeter Wave Applications	Sandeep Chaturvedi, Manu Raj and Anant A Naik (GAETEC, India)	Fabrication, Packaging and 3D printing	S18B
235	26	1570930895	Defected Ground Circular Shaped Non-Invasive Microwave Sensor for Deep Brain Temperature Measurements	Tilakdhari Singh (Motilal Nehru National Institute of Technology, Allahabad, India); Piyush Kumar Mishra (Motilal Nehru National Institute of Technology Allahabad, India); Aditya Pal (Motilal Nehru National Institute of Technology, Allahabad, India); Pawan Kumar Shukla (Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India); Pooja Sharma (Motilal Nehru National Institute of Technology Allahabad, Prayagraj, India); Vijay Shanker Tripathi (Motilal Nehru National Institute of Technology, Allahabad, India)	Medical, Biomedical and Industrial Applications of Microwaves	S19A
236	111	1570940233	IN-SILICO Non-Invasive Glucose Monitoring Using Patch Antenna	Goundla Sricharani (Indian Institute of Information Technology, Design and Manufacturing, Jabalpur, India); Urvashi Singh (Indian Institute of Technology Bombay, India & IPDF, India); Jayanta Mukherjee (Indian Institute of Technology Bombay, India)	Medical, Biomedical and Industrial Applications of Microwaves	S19A
237	152	1570940720	UWB Antipodal Antenna With Half-Elliptical Parasitic Patch Loaded With Cylindrical Dielectric for Microwave Breast Imaging Application	Athul O Asok, Ayush Tripathi and Sukomal Dey (Indian Institute of Technology Palakkad, India)	Medical, Biomedical and Industrial Applications of Microwaves	S19A
238	154	1570940729	Brain Tumor Detection With Flower Shaped Monopole Antennas Utilizing Microwave Imaging	Athul O Asok, Ayush Tripathi and Sukomal Dey (Indian Institute of Technology Palakkad, India)	Medical, Biomedical and Industrial Applications of Microwaves	S19A
239	188	1570941033	Food Contamination Detection With Step Notched Antipodal Vivaldi Antenna Using Microwave Imaging	Pawan Kumar Jaiswal (NIT PATNA & MIT Muzaffarpur, India); Rajarshi Bhattacharya (National Institute of Technology Patna, India)	Medical, Biomedical and Industrial Applications of Microwaves	S19A
240	232	1570944068	Novel Metamaterial Inspired SSP-WGM Resonator Based Highly Sensitive EM Biosensor for Noninvasive Measurement of Blood Glucose Using Aqueous Glucose Solution and Saliva	Debarati Dutta (Indian Institute of Technology, Mandi, India); Ravi Anand and Prashant Shah (Indian Institute of Technology Mandi, India); Namrata Mendiratta and Anirban Sarkar (Indian Institute of Technology, Mandi, India)	Medical, Biomedical and Industrial Applications of Microwaves	S19A
241	305	1570944969	A mm-Scale Low-Frequency Magnetolectric Antenna for Short-Range Communications in Biomedical Implants	Dibyajyoti Mukherjee (Indian Institute of Technology Delhi, India); Dhiman Mallick (IIT Delhi, India)	Medical, Biomedical and Industrial Applications of Microwaves	S19A
242	313	1570945029	A Novel Tumour Characterization in Microwave Imaging Using Pattern-Based Weighted DMAS	Smriti Rani (Tata Consultancy Services, India); Arijit Chowdhury (Indian Institute of Science, India); Anwesha Khasnobish (TCS, India); Soumya Chakravarty and Tapas Chakravarty (Tata Consultancy Services Limited, India); Mohammad Jaleel Akhtar (Indian Institute of Technology Kanpur, India)	Medical, Biomedical and Industrial Applications of Microwaves	S19A
243	337	1570945215	Heart Rate Variability Assessment Using Single Channel CW Doppler Radar	Md. Shafkat Hossain, Syed Doha Uddin and Shekh Md Mahmudul Islam (University of Dhaka, Bangladesh)	Medical, Biomedical and Industrial Applications of Microwaves	S19B
244	388	1570945436	A Compact EBG Integrated Slot Antenna for Wearable Applications	Monika Budania (Somaiya Vidyavihar University, India); Bharati Alok Singh, Mrs (K. J. Somaiya College of Engineering, India); Vandana Satam (Somaiya Vidyavihar University, India)	Medical, Biomedical and Industrial Applications of Microwaves	S19B
245	451	1570945644	A Wearable IoT Based Assistive Device to Aid Communication With Hearing Impaired	Mansi Goyal and Gowrish Basavarajappa (Indian Institute of Technology Roorkee, India)	Medical, Biomedical and Industrial Applications of Microwaves	S19B
246	452	1570945646	Complementary Radially Shaped Split Resonator Structure for Quality Assessment of Cooking Oils	Apala Banerjee (Indian Institute of Technology, India); Nilesh Tiwari (IIT Kanpur, India); Mohammad Jaleel Akhtar (Indian Institute of Technology Kanpur, India)	Medical, Biomedical and Industrial Applications of Microwaves	S19B
247	463	1570945671	Design of Complementary Meander Shaped Resonator for Adulteration Testing	Surabhi Jain (Indian Institute of Technology Kanpur, India); Prakrati Azad (Indian Institute of Technology Kanpur India, India); Nilesh Tiwari (IIT Kanpur, India); Mohammad Jaleel Akhtar (Indian Institute of Technology Kanpur, India)	Medical, Biomedical and Industrial Applications of Microwaves	S19C
248	493	1570945737	Adulteration Detection of Glycol in Medical Grade Solvents Using the CSRR Loaded Stepped Coplanar Waveguide	Ankita Kumari (Indian Institute of Technology Kanpur, India); Prakrati Azad (Indian Institute of Technology Kanpur India, India); Mohammad Jaleel Akhtar (Indian Institute of Technology Kanpur, India)	Medical, Biomedical and Industrial Applications of Microwaves	S19C
249	670	1570947919	Circular Ring Microwave Applicator for Superficial Hyperthermia Treatment	Mable Alex (National Institute of Technology, Tiruchirappalli, India); Geetha Chakaravarthi (NITT, India)	Medical, Biomedical and Industrial Applications of Microwaves	S19C
250	303	1570944963	Design and Development of RF Synthesizer for Rubidium Atomic Clock	Bikash Ghosal and Sarathi Mandal (Space Applications Centre, India); Biplab Ghosh (Space Applications Centre, Indian Space Research Organisation (ISRO), India); Jaydeep Kaintura (Space Applications Centre, India); Maulik L Bhavsar (Space Applications Centre, ISRO, India); M. Senthilkumar (ISRO, India); Dinesh Kumar Singh (SAC, ISRO, India)	Quantum Devices, Systems & Applications	S20
251	455	1570945654	Experimental Demonstration of Coexistence of Classical and Quantum Communication in Quantum Key Distribution Link	Gokul A and Harinee Natarajan (Indian Institute of Science, India); Varun Raghunathan (IISc, India)	Quantum Devices, Systems & Applications	S20
252	456	1570945655	A W-Band Power Efficient Frequency Doubler	Bijit Biswas (SAMEER, India); Mrinal Kanti Mandal (Indian Institute of Technology, Kharagpur, India)	Quantum Devices, Systems & Applications	S20
253	470	1570945683	Automated Quad Detector Based Acquisition and Tracking System for Free Space Optical Communication	Koushik Basak (ISRO, India)	Quantum Devices, Systems & Applications	S20

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254	486	1570945724	Timing Synchronization in an FPGA-Based Real-Time Quantum Key Distribution System	Santosh Lacheta (Space Applications Centre (ISRO), India); Pankaj Gupta (SAC, India); Anurag Anurag Agrawal, Munish Kumar Jain, Rohan S Urdhwareshe and Sumedha Goyal (ISRO, India)	Quantum Devices, Systems & Applications	S20
255	538	1570947266	Strategies to Achieve High Brightness in Collinear Sagnac Polarization Entangled Photon Source	Jay B. Bhatt and Parthkumar V. Sakhiya (Indian Space Research Organisation (ISRO), India); Adarsh Jain (Space Applications Centre, India); M. Senthilkumar (ISRO, India); Dinesh Kumar Singh (SAC, ISRO, India)	Quantum Devices, Systems & Applications	S20
256	543	1570947390	Development of Active Polarization Tracking and Compensation System for Satellite-To-Ground QKD	Abhishek Khanna (Space Applications Centre, India); Parthkumar V. Sakhiya and Jay B. Bhatt (Indian Space Research Organisation (ISRO), India); Adarsh Jain (Space Applications Centre, India); M. Senthilkumar (ISRO, India); Dinesh Kumar Singh (SAC, ISRO, India)	Quantum Devices, Systems & Applications	S20
257	622	1570947848	Quantum Protocols: A Study on Free Space and Fiber Based QKD Links	Shashank Kumar (ISRO, India)	Quantum Devices, Systems & Applications	S20
258	108	1570940191	Wireless Power Transfer System Using Near Zero Refractive Index Metasurface for ISM Band Applications	Nilanjan Dutta, Shrabani Mukherjee and Kaushik Mandal (University of Calcutta, India)	RF Energy Harvesting & Wireless Power Transfer	S21
259	226	1570943523	Design of Planar Antenna Array for the Generation of Near-Distance Energy Hotspots	Amrutha Subrahmannian and Manav Saraf (Indian Institute of Technology Roorkee, India); Amalendu Patnaik (IIT Roorkee, India); Utpal Dey (Indian Institute of Technology Roorkee, India)	RF Energy Harvesting & Wireless Power Transfer	S21
260	396	1570945471	In-House Experimental Demonstration of a Four-Port Antenna System and Wilkinson Power Combiner for Rectenna Applications in n78 Band	Debarati Ganguly (Indian Institute of Science, India); Jogesh Chandra Dash (National Institute of Technology Rourkela, India); Debdeep Sarkar (Indian Institute of Science, India)	RF Energy Harvesting & Wireless Power Transfer	S21
261	477	1570945703	Inexpensive Wireless Power Transfer System	Vedant Arya, Kirti Inamdar and Suresh Dahiya (Sardar Vallabhbhai National Institute of Technology, India)	RF Energy Harvesting & Wireless Power Transfer	S21
262	492	1570945734	A Dual-Band, Polarization Insensitive Rectifying Surface for RF Energy Harvesting	Prashant Shah (Indian Institute of Technology Mandi, India); Debarati Dutta (Indian Institute of Technology, Mandi, India); G Shrikanth Reddy (IIT Mandi, India)	RF Energy Harvesting & Wireless Power Transfer	S21
263	546	1570947431	Experimental Verification of Efficiency Enhancement of a Parasitic Patch Based Wireless Power Transfer System for IMDs	Alok Chandra Joshi (Indian Institute of Science, India); Jogesh Chandra Dash (National Institute of Technology Rourkela, India); Debdeep Sarkar (Indian Institute of Science, India)	RF Energy Harvesting & Wireless Power Transfer	S21
264	666	1570947915	Development of RF Based Energy Harvesting Module for Passive Sensing	Mohammed Arshad Ali Khan (NITT & NIT Trichy, India); Rakesh R and Kumari Sai Teja Y (National Institute of Technology, Tiruchirappalli, India); Geetha Chakaravarthi (NITT, India)	RF Energy Harvesting & Wireless Power Transfer	S21
265	669	1570947918	Design of FSS Based RF Energy Harvesting System With Near Unity Absorption	Farheen Fatima (Indian Institute of Technology Kanpu, India); Ravinder Ravinder and Mohammad Jaleel Akhtar (Indian Institute of Technology Kanpur, India)	RF Energy Harvesting & Wireless Power Transfer	S21
266	78	1570939300	A Machine Learning Based Design of Compact Microstrip Patch Frequency Reconfigurable Antenna	Mohd. Yusuf (Indian Institute of Technology Roorkee, India); Nilesh Dipak Bhandare (Sathyabama Institute of Science and Technology, Chennai, India); A. Sahaya Anselin Nisha (Sathyabama University Chennai, India); Sourajeet Roy (IIT Roorkee, India)	Artificial Intelligence & Machine Learning	S22
267	145	1570940680	A Fast Optimization Scheme of Antenna Arrays Using the Multi-Objective Pareto Front	Suvadeep Choudhury and Giuliano Manara (University of Pisa, Italy); Filippo Costa (Institute of Systems and Robotics University of Coimbra, Portugal); Smail Tedjini (University Grenoble Alpes, France); Simone Genovesi (University of Pisa, Italy)	Artificial Intelligence & Machine Learning	S22
268	332	1570945107	AI-Assisted Markerless Activity Tracking System for Supporting Aging and Wellness	Hajar Abedi, Ahmad Ansariyan, Plinio P Morita and Alexander Wong (University of Waterloo, Canada); Jennifer Boger (University of Waterloo & Research Institute for Aging, Canada); George Shaker (University of Waterloo & Spark Tech Labs, Canada)	Artificial Intelligence & Machine Learning	S22
269	413	1570945503	Classification of RF Fingerprint Signals From UAV Controller Using Machine Learning Techniques	Abya Singh (IIT Roorkee, India); Vivek Sharma (Linearized Amplifier Technologies & Services Private Ltd, India); Karun Rawat (Indian Institute of Technology Roorkee, India)	Artificial Intelligence & Machine Learning	S22
270	428	1570945553	AI/ML: A Powerful Tool for Future Microwave Engineering Problems	Suman Bharti and Utpal Dey (Indian Institute of Technology Roorkee, India); Amalendu Patnaik (IIT Roorkee, India)	Artificial Intelligence & Machine Learning	S22
271	25	1570930762	Exploiting Time Domain Monostatic Backscatter Measurements for Gain Determination	Stanley Kuja (Rhodes University, South Africa); Gideon Wiid (University of Cape Town, South Africa); Temwani J. Phiri (Dassault Systèmes South Africa (Pty) Ltd, South Africa)	Antenna & Microwave Measurements	S23
272	49	1570936407	The Navigation Antenna Pattern Retrieval After Measurement Under Directed Irradiation From Close Distance	Layth K Abuhadma (Al-Karkh University of Science & Kazan National Research Technical University named after A. N. Tupolev - KAI, Iraq); Yuri Choni (Kazaz National Research Technical University, Russia)	Antenna & Microwave Measurements	S23
273	282	1570944832	An Automatic RF Measurements With Vector Network Analyzer	Vikram Maruti Sonmore (Tejas Networks, India); Ratnesh Kumar Gaur (Tejas Networks & IEEE ORG, India); Girish Chandra Tripathi and Anindya Saha (Tejas Networks, India)	Antenna & Microwave Measurements	S23
274	354	1570945305	RF Characterization of Xilinx RFSoc XCZU28DR	Veerendra Mittapally (Research Centre Imarat, India)	Antenna & Microwave Measurements	S23
275	528	1570946939	Theoretical Analysis of Backscattering From Dielectric Sphere for Design of THz Tags	Nikhil Kumar and Utpal Dey (Indian Institute of Technology Roorkee, India)	Antenna & Microwave Measurements	S23

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276	547	1570947465	Characterization of Reactive Energy Density in the Antenna Near-Field Using EM Lagrangian Density	Debdeep Sarkar (Indian Institute of Science, India); Yahia M. M. Antar (Royal Military College, Canada)	Antenna & Microwave Measurements	S23
277	710	1570951118	Impact of Reflection & Leakage on Antenna Measurement in Compact Antenna Test Range	Rakesh Kumar (Space Applications Centre (ISRO), India); Jaswant Sharma and Avinash Chalamalasetty (SAC (ISRO), India)	Antenna & Microwave Measurements	S23
278	277	1570944798	Design of Flame-Retardant, Hydrophobic, Ultrathin, Lightweight and Flexible EMI Shielding Fabric and Sheets for Defense, Space & Industrial Application	Vishal Kumar Chakradhary (RF Nanocomposites Pvt Ltd & SIIC IIT Kanpur, India); Swati Gangwar (IIT Kanpur, India); Mohammad Jaleel Akhtar and Kamal K. Kar (Indian Institute of Technology Kanpur, India); Shivani Jha (IIT Kanpur, India)	EMI & EMC	S24
279	363	1570945335	Development of Lightweight and Flexible Carbon Nanofiber and Polyurethane Nanocomposite for EMI Shielding Applications	Jitendra Tahalyani (IIT Kanpur, India); Mohammad Jaleel Akhtar and Kamal K. Kar (Indian Institute of Technology Kanpur, India)	EMI & EMC	S24
280	369	1570945365	Signal Integrity Measurement Issue Debugging for HDMI2.1 CRLS Topology: A Case Study	SureshKumar Ayyavu, MuthuKumaran Durairaj, Dishant Pandya, Brahim Koudssi Z and Sabari N Siva Sankaran (Intel Corporation, India); Nilesh Tiwari (IIT Kanpur, India); Ashish Gupta (Intel Corporation, India)	EMI & EMC	S24
281	515	1570946003	Ultra-Thin LIG Film for X Band EMI Shielding Applications	Mohammad Shah Nawaz (IIT Kanpur, Kanpur, INDIA, India); Himangshu Baskey (DMSRDE, DRDO, Kanpur, India); Mohammad Jaleel Akhtar (Indian Institute of Technology Kanpur, India)	EMI & EMC	S24
282	540	1570947272	EMI at Variable Repetition Rate Operation of Magnetic Pulse Compression Based Laser Power Supply	Dheeraj Kumar Singh (Homi Bhabha National Institute & Bhabha Atomic Research Centre, India); Rajasree Vijayan (Bhabha Atomic Research Centre, India); Suvendu Mandal (BARC, India); Vinod Rawat (Bhabha Atomic Research Centre, India)	EMI & EMC	S24
283	604	1570947791	Electromagnetic Interference Mitigation in SATCOM Ku-Band Channel Amplifiers	Shashi Kant Pandey (Space Applications Centre, India); Anant Sharma (Space Applications Centre & ISRO, India); Puja Srivastava and Jayesh Thakkar (SAC, ISRO, India)	EMI & EMC	S24
284	47	1570936052	Navigating the Road to Connectivity: Use Cases and Design Considerations for V2X Networks Using Millimeter-Wave 5G Beam-Steering Antennas	Aakash Bansal (Loughborough University, United Kingdom (Great Britain)); Nicolette Formosa (National Highways, United Kingdom (Great Britain))	Automotive Technologies	S25
285	149	1570940702	Study of the Tilted Mounting Angle of Automotive Radar Antenna Installed Behind a Painted Bumper	Nancy Modi, Mahesh Kumar Busineni and Jayanta Mukherjee (Indian Institute of Technology Bombay, India)	Automotive Technologies	S25
286	160	1570940772	A Five-Element MIMO Antenna Based on Wideband Triple-Resonance SIW Antenna for Vehicular Communications	Nancy Modi, Mahesh Kumar Busineni and Jayanta Mukherjee (Indian Institute of Technology Bombay, India)	Automotive Technologies	S25
287	377	1570945400	CPW-Fed, Spanner-Shaped Compact Antenna for Ultra-Wideband and V2X Applications	Rahul Kumar Garg (Arya College of Engineering and IT Jaipur India & The LNM Institute of Information Technology, Jaipur, India); Shipra Bhatia (CSIR-CEERI, PILANI, INDIA, India)	Automotive Technologies	S25
288	159	1570940762	Analysis of Differential Spacecraft Charging Using Suprathermal GEO Plasma Particles	Surup Chakrabarty (National Institute of Technology Agartala, India); Soumyabrata Chakrabarty (IIT Gandhinagar & Space Applications Centre, ISRO, Ahmedabad, India); Anirban Bhattacharjee (National Institute of Technology Agartala, India)	Plasmonics	S26
289	260	1570944727	Solar Cell Integrated Optically Transparent Antenna	Riya Malia (Shri Mata Vaishno Devi University, India); Kumud Ranjan Jha (Shri Mata Vaishno Devi University, Jammu and Kashmir, India); Satish K. Sharma (San Diego State University, USA)	Plasmonics	S26
290	317	1570945039	Sub-6 GHz Asymmetric Spoof Surface Plasmon Polaritons Based Broadband Beam Scanning Antenna for Wide Angle Coverage	Ravi Anand (Indian Institute of Technology Mandi, India); Debarati Dutta, Namrata Mendiratta and Anirban Sarkar (Indian Institute of Technology, Mandi, India)	Plasmonics	S26
291	461	1570945664	Design and Development of Tunable Bandpass Filter at Microwave Frequency Using Plasmonic Metamaterial Based Ring Resonator Structure	Gaurav Mittal (Defence Electronics Application Laboratory & Defence Research Development Organization, India); Nagendra Prasad Pathak (Indian Institute of Technology, Roorkee, India)	Plasmonics	S26
292	472	1570945688	Design and Analysis of Spoof Surface Plasmon Polaritons Based Leaky-Wave Antenna for Continuous Beam Scanning	Ravi Anand and Himansu Sekhar Senapati (Indian Institute of Technology Mandi, India); Debarati Dutta and Anirban Sarkar (Indian Institute of Technology, Mandi, India)	Plasmonics	S26
293	593	1570947768	Planar Slot Antenna Array Based on Spoof Surface Plasmon Transmission Line	Somia Sharma (IIT Delhi, India); Rajesh K Singh (Defence Institute of Advanced Technology Pune, India & DIAT Pune, India); Ananjan Basu (Indian Institute of Technology, Delhi, India); Shibani K Koul (Indian Institute of Technology Delhi, India)	Plasmonics	S26
294	12	1570925476	Compact Microstrip Patch Antenna With Slotted Patch and Parasitic Elements for X Band Applications	Aakanksha Bajjal (Birla Institute of Technology & Science, Pilani, India); Sudeep Baudha (BITS PILANI K K BIRLA GOA Campus, India)	Microstrip Antennas	S27A
295	27	1570930907	S-/C-Band Common Aperture Microstrip Antenna With Polarization Versatility	Satyajit Chakrabarti (SAMEER Kolkata, India); Ashim Chakraborty (SAMEER Kolkata Centre & Research Scientist, India)	Microstrip Antennas	S27A
296	30	1570932450	Dual Linearly Polarized Common Aperture Microstrip Antenna for S- and C-Band Communication	Satyajit Chakrabarti (SAMEER Kolkata, India); Ashim Chakraborty (SAMEER Kolkata Centre & Research Scientist, India)	Microstrip Antennas	S27A
297	65	1570938905	Planar RFID Tag Antenna Based on Combined Matching Techniques at 902 MHz	Amit Kumar Singh (IIT BHU VARANASI, India); Amit Kumar Singh (IIT(BHU), India)	Microstrip Antennas	S27A

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298	125	1570940564	Dual Circularly Polarized Wide Beamwidth Microstrip Antenna Backed by Choke Ring for S-Band	Suvrajit Ghosh and Atrish Mukherjee (Indian Space Research Organisation (ISRO), India); Sravan Kumar Sagi (Space Applications Centre ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	Poster	P2
299	196	1570941201	Linearly Polarized Wideband Koch Fractal Antenna for C and X-Band Applications	Subhasish Pandav (National Institute of Technology, Rourkela, India); Santanu Kumar Behera (National Institute of Technology Rourkela, India)	Microstrip Antennas	S27A
300	223	1570943453	Dual-Band Patch Antenna Design With Pattern Diversity	Akash Paramanik, Mehran Manzoor Zargar and Kushmanda Saurav (Indian Institute of Technology Jammu, India)	Microstrip Antennas	S27A
301	296	1570944936	Cavity Backed Cross Dipole Antenna With Wide Axial Ratio Beamwidth and High Efficiency	Daksh Dhiman (Antenna Systems Group & ISRO, India); Mohit Anand and Alok Singhal (Space Applications Centre, India); Sravan Kumar Sagi (Space Applications Centre ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	Microstrip Antennas	S27A
302	301	1570944954	Defected Ground Structure (DGS) Based Narrow Rectangular Patches: Detailed Investigations With Promising Improvement in Cross-Polar Radiations	Chandrakanta Kumar (ISRO, India); Debatosh Guha (University of Calcutta, India)	Microstrip Antennas	S27B
303	382	1570945411	Decoupling Technique for the E-Plane Array Microstrip Antenna Configuration	Rupa Laller and Mahesh P Abegaonkar (IIT Delhi, India); Ananjan Basu (Indian Institute of Technology, Delhi, India)	Microstrip Antennas	S27B
304	407	1570945495	Devil-Shaped SWB Antenna for Smart-Home Applications	Swati Gaur (MNIT Jaipur, India); Sarthak Singhal (Malaviya National Institute of Technology Jaipur, India); Mohammad Salim (MNIT Jaipur, India)	Microstrip Antennas	S27B
305	449	1570945641	Dual-Circularly Polarized Microstrip Flat Panel Antenna Array for SATCOM Telemetry System	Tanmayi Seedrala (Astra Microwave Products Ltd, India); Debaprasad Barad (Astra Microwave Products Limited & Indian Institute of Science, India); Balachary Molupaju (Astra Microwave Products Ltd, India)	Microstrip Antennas	S27B
306	478	1570945704	Bandwidth Enhancement of Circular Patch Antenna Through Reflective Excitation Technique	Satish Srivastava (Indian Institute of Technology, Kanpur, India); Sivada Manisankar (IIT Kanpur, India); A. r. Harish (Indian Institute of Technology Kanpur, India)	Microstrip Antennas	S27B
307	479	1570945708	Reducing Q Factor in a Near Half-Mode Miniaturized Patch Antenna Using Slotted Ground	Sivada Manisankar (IIT Kanpur, India); Satish Srivastava (Indian Institute of Technology, Kanpur, India); A. r. Harish (Indian Institute of Technology Kanpur, India)	Microstrip Antennas	S27B
308	510	1570945765	Microstrip Patch With a Vertical Loading for Improved Radiation Properties	Soumojeet Basak, Sk Rafidul and Debatosh Guha (University of Calcutta, India)	Microstrip Antennas	S27B
309	545	1570947424	High-Performance Slotted Patch Crossovers for RF Applications	Ajay Kumar Singh (Defence Institute of Advanced Technonology (DIAT), India); Kamla Prasan Ray (Defence Institute of Advanced Technolgy Pune INDIA, India & School of Radar Technolgy, India); Bibhuti Bhusan Padhy (ARDE, DRDO, India)	Microstrip Antennas	S27B
310	548	1570947476	Patch Array Antenna Fed Using Ridge Gap Waveguide Power Divider for SATCOM Applications	Kashish Grover (SAC-ISRO, India); Ranajit Dey and Shibasish Prusty (Indian Space Research Organisation, India); Sanjeev Kulshrestha (Space Application Centre, ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	Microstrip Antennas	S27C
311	575	1570947711	Circular Polarized Antenna for X-Band and Ku-Band Satellite Communication	Bhavin Kanbi, Vishwesh Jha and Girish Chandra Ghivela (Indian Institute of Information Technology, Nagpur, India); Joydeep Sengupta (Visvesvaraya National Institute of Technology, Nagpur, India)	Microstrip Antennas	S27C
312	595	1570947775	Compact and Broadband Elliptical Microstrip Antenna With Low Cross-Polarization	Rinkee Chopra (IIT Indore, India & NA, India); Rahul Lakhmani (IIM Calcutta, India & Skiify Solutions, India)	Microstrip Antennas	S27C
313	646	1570947889	Investigation Into a Low Profile, Planar, Multi Band Dense Dielectric Patch Inspired Hybrid Planar Antenna With Stable Radiation Characteristics	Subhradeep Chakraborty (CSIR-CEERI, Pilani, india, India); Mahesh P Abegaonkar (IIT Delhi, India); Ananjan Basu (Indian Institute of Technology, Delhi, India)	Microstrip Antennas	S27C
314	69	1570938993	Microstrip Leaky Wave Antenna With Constant & High Gain and High-Efficiency	Chirag Meena (IIT Bombay, India); Shanu Kumar and Jayanta Mukherjee (Indian Institute of Technology Bombay, India)	Advanced Passive Antennas	S28
315	92	1570939652	A Circularly Polarized Cavity-Backed Conformal Antenna With Wide Sectoral Coverage and Low Cross Polarization for High Power X-Band Airborne Application	Soumya Biswas and Amitesh Kumar (SAMEER, India); Swatilekha Chowdhury and Vivek Kumar Singh (SAMEER Kolkata Centre, India); Satyajit Chakrabarti (SAMEER Kolkata, India)	Advanced Passive Antennas	S28
316	410	1570945499	Microfluidic HMSIW Based Self-Diplexing Antenna for Simultaneous Sensing of Liquid Samples	Vudattu JayaPrakash (VIT-AP, India); Chandu DS (National Institute of Technology Andhra Pradesh, India)	Advanced Passive Antennas	S28
317	458	1570945660	High Gain Holographic Antenna Using Microstrip Aperture Feed	Shatish Kumar Gautam (Jawaharlal Nehru University, India)	Advanced Passive Antennas	S28
318	532	1570947131	Shared Aperture Dipole Antenna Design With Common Ground for Pattern Diversity	Swapna S (IIT Delhi, India); Karthikeya G S (BMS College of Engineering, India); Shibban K Koul (Indian Institute of Technology Delhi, India); Ananjan Basu (Indian Institute of Technology, Delhi, India); Ajay K Poddar (Synergy Microwave Corporation, USA & Oradea University Romania, Romania); Ulrich Rohde (Synergy Microwave Corp., USA)	Advanced Passive Antennas	S28
319	659	1570947907	A Low Profile Omni-Directional Antenna Using Modified Split-Ring Slot as a Radiator for UHF Band Applications	Shubhangi Awasthi (IIT KANPUR, India); Shivang Mishra (India Institute of Technology Kanpur, India); Richa Richa (IIT KANPUR, India); Raghvendra Kumar Chaudhary (IIT Kanpur, India)	Advanced Passive Antennas	S28

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320	689	1570948225	Design of Koch Fractal Antenna With Defected Ground Structure for S-Band Applications	Subhasish Pandav (National Institute of Technology, Rourkela, India); Santanu Kumar Behera (National Institute of Technology Rourkela, India)	Advanced Passive Antennas	S28
321	694	1570948530	Challenges in Design & Realization of Fabry-Perot Cavity Based High Gain Antennas	Shashank Saxena (Indian National Space Promotion and Authorization Centre, India); Rohit Kumar Nandwani (SAC, India); Milind B Mahajan (Space Applications Centre, ISRO, India); Rajeev Jyoti (InSpace DOS, India)	Advanced Passive Antennas	S28
322	169	1570940860	Analysis of Terahertz FMCW Radar System for 2D SAR Imaging	Rupesh Kumar (WSI, SRM University AP, India); Mercy Latha (Central Electronics Engineering Research Institute CSIR India, India); Vishant Gahlaut (Banasthali Vidyapeeth, India); Meenu Kaushik Meenu Kaushik (Banasthali Vidyapith Banasthali Rajasthan India, India)	Terahertz Sensing & Imaging	S29
323	253	1570944531	Broadband Tunable and Angularly Stable Circular Polarization Conversion in THz-Gap Using Graphene Metasurface	Sambit Ghosh (IIT BHU, India); Somak Bhattacharyya (IIT (BHU), India)	Terahertz Sensing & Imaging	S29
324	346	1570945268	Design of a THz Fabry-Perot Cavity Antenna for Space Based Communications	Ratul De (Indian Institute of Technology Delhi, India); Mahesh P Abegaonkar (IIT Delhi, India); Ananjan Basu (Indian Institute of Technology, Delhi, India)	Terahertz Sensing & Imaging	S29
325	436	1570945577	A 124-202 GHz Compact Wideband Sub-THz On-Chip Monopole Antenna Using Split Ring Resonators in 65 nm CMOS Process	Samiyalu Usurupati (Indian Institute of Space Science and Technology, Thiruvananthapuram, India); Immanuel Raja (Indian Institute of Space Science and Technology, India); Chinmoy Saha (Indian Institute of Space Science and Technology, India & Royal Military College of Canada, Canada); Jawad Y Siddiqui (University of Calcutta, India & Royal Military College of Canada, Canada)	Terahertz Sensing & Imaging	S29
326	459	1570945661	Rapid Scanning Polarizing Martin Puplett Type THz Fourier Transform Spectrometer (FTS) for ITER ECE Measurements	Ravinder Kumar (ITER-India & INSTITUTE FOR PLASMA RESEARCH, India)	Terahertz Sensing & Imaging	S29
327	560	1570947557	Design and Development of Schottky Diode-Based Sub-Harmonic Mixers at 230GHz and 345GHz	Latheef Shaik (Space Applications Centre, India); Anamiya Bhattacharya (Indian Space Research Organization, India); Shrija Bhattacharyya (Space Applications Centre, ISRO, India); Harshita Tolani (Indian Space Research Organization, India); Prantik Chakraborty (SAC ISRO, India)	Terahertz Sensing & Imaging	S29
328	639	1570947880	Dual-Circularly Polarized Antenna Array for Automotive Radar at 77 GHz Based on SISL Topology	Aakash Aakash, Anju Kumari Rai, Rahul Vishwakarma, Sudeb Bhattacharya and Kumar Vaibhav Srivastava (Indian Institute of Technology Kanpur, India)	Terahertz Sensing & Imaging	S29
329	127	1570940583	W-Band Broadband Single Balanced Waveguide Mixer	Arun Kumar (Society for Applied Microwave Electronics Engineering and Research (SAMEER), India); Nagendra P Pathak (Indian Institute of Technology Roorkee, India)	Emerging Technologies for 6G Communication	S30
330	150	1570940713	Design & Development of W-Band Monopulse Slotted Waveguide Array Antenna	Swetha Muthyala (Defence Research and Development Organisation & RCI, India); Dhananjay Ramachandra Jahagirdar and Nidhi Madhuri Aluwala (Defence Research and Development Organisation, India)	Emerging Technologies for 6G Communication	S30
331	250	1570944503	A Circularly Polarized Planar Sub-THz Antenna for 6G Wireless Communication	Sunil Kumar (National Institute of Technology Hamirpur, India); Saurabh Kumar (National Institute of Technology, Hamirpur, India)	Emerging Technologies for 6G Communication	S30
332	255	1570944549	Experimental Demonstration of SI-Cancellation in a Co-Linearly Polarised Shared-Radiator Full-Duplex Antenna for 6G	Jogesh Chandra Dash (National Institute of Technology Rourkela, India); Yugesh Chandrakapure (Indian Institute of Science Bangalore, India); Debdeep Sarkar (Indian Institute of Science, India)	Emerging Technologies for 6G Communication	S30
333	444	1570945620	A 140 GHz SiGe Power Amplifier With >12.5dBm P1dB and >8% PAE for Phased Array Systems in 6G Communication	Robin Kalyan (Agency for Science, Technology & Research, India); Sonu Kumar, Arokiaswami Alphones and Ranjan Singh (Nanyang Technological University, Singapore)	Emerging Technologies for 6G Communication	S30
334	600	1570947784	Computer Aided Design of Wideband Waveguide Packaging of Multi-MMIC Receiver at W Band	Mousumi Sarkar (SAMEER Kolkata Center, India); Sukhendu Bhanja (Scientist, India); Arijit Majumder (SAMEER, Kolkata Center, India)	Emerging Technologies for 6G Communication	S30
335	1	1570920370	Grating Lobe Suppression in Aperiodic Antenna for Large Phased Array Using Genetic Algorithm	Sheik Altaf M (LRDE, India); KP Ray (DIAT, Pune, India); Abhishek Divantgi (India); S R Deekshith Prasad and KA Nethravathi (RVCE, India); Elayaperumal S (LRDE, India)	Poster	P1
336	2	1570920371	Performance Analysis of Adaptive Beamforming on Large Inter Element Spaced Aperiodic Phased Arrays	Sheik Altaf M (LRDE, India); KP Ray (DIAT, Pune, India); Anubha Mittal (RV College of Engineering, India); Shravya Vasudeva (India); KA Nethravathi (RVCE, India); Elayaperumal S (LRDE, India)	Poster	P1
337	5	1570922505	A CPW-Fed Band Notch Super Wideband Antenna With Scale Up/Down Capability	Sachin Agrawal (NIT Delhi, India)	Poster	P1
338	13	1570925594	Design of CPW Fed 4 x 4 MIMO Antenna for UWB Application	Nidhi Yadav (Malviya National Institute of Technology Jaipur & Government Ramchandra Khaitan Polytechnic College, Jaipur, India); Rajendra Prasad Yadav (Malaviya National Institute of Technology Jaipur, India); MM Sharma (MNIT Jaipur, India)	Poster	P1
339	40	1570935427	Realization of Substrate Integrated Waveguide Filter for High Frequency Satcom Applications	Nishant Shukla (SAC, ISRO & IIT Kanpur, India); Vikas Gupta and Praveen Ambati (SAC-ISRO, India); Jayesh Thakkar (SAC, ISRO, India)	Poster	P1
340	41	1570935688	Design of Frequency Reconfigurable Hybrid Fractal Antenna for Wireless Applications	Khushbu Patel (NIT Rourkela, India); Santanu Kumar Behera (National Institute of Technology Rourkela, India)	Poster	P1

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341	44	1570935867	Wideband High Gain Metasurface-Based Circularly Polarized Patch Antenna	Deepak Ram (IIT (BHU), Varanasi, India); Amit Kumar Singh (IIT(BHU), India); Somak Bhattacharyya (IIT (BHU), India)	Poster	P1
342	50	1570936797	Design of an Annular Slot Loaded Circularly Polarized Reconfigurable Antenna	Renu Agrawal (MNIT Jaipur, India); Indra Bhooshan Sharma (Malaviya National Institute of Technology, Jaipur, India); Subhash Shrimal (MNIT Jaipur, India); Mahendra Mohan Sharma (Malaviya National Institute of Technology, India)	Poster	P1
343	57	1570938006	Digital Video Communication Using Salt Water Standing Columns	Sarada Sree Atchutuni and Hitesh Chudasma (Institute for Plasma Research, India)	Poster	P1
344	68	1570938977	Design of Doherty Amplifier for Efficiency Enhancement of 5G gNB Using GaN Technology	V Kiran Bharadwaj (NIT Durgapur, India); Rowdra Ghatak (National Institute of Technology Durgapur, India); Tapas Chakravarty (Tata Consultancy Services Limited, India)	Poster	P1
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348	83	1570939405	Modeling of Silicon Based Nano Transmission Line Phase Shifter Using Numerical Discretization	Kanthamani S (Thiagarajar College of Engineering, India); Mary Sindhuja Nicholas Marypunitha (Kamaraj College of Engineering and Technology, India)	Poster	P1
349	84	1570939414	Design of Miniaturized Antenna Array on 3D Printed PLA Substrate With Fractal Ground	Atul Marutirao Kulkarni (NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH & Dr Babasaheb Ambedkar Technological University, India); Garima Saini (NITTTTR, India); Shyam Sundar Pattnaik (National Institute of Technical Teachers Training & Research, India)	Poster	P1
350	93	1570939659	Design of a Semi-Circular Finger Shaped Antenna With Metamaterial Loaded Ground for Brain Tumor Detection and Localization	Javaid A. Sheikh (University of Kashmir, Srinagar & Deptt. of Electronics and IT., India)	Poster	P1
351	105	1570940168	Design of a Quasi-Elliptic Filter in Groove Gap Waveguide Technology Using Overmoded Cavity for Low-Loss High-Power Applications at Q-Band	Rajni Kant (Space Applications Centre, India); Deepak Ghodgaonkar (DAICT, India); Abhishek Jindal (Dhirubhai Ambani Institute of Information and Communication Technology, India); Parthasarathi Samanta (Space Applications Centre, ISRO, Ahmedabad, India); Hitesh Modi (Sac isro, India); Praveen Ambati (SAC-ISRO, India)	Poster	P1
352	117	1570940310	Design of Ultra Wideband MMIC Reflective Switch	Sari S (PDIC BEL, India); Tulasi Sivakumar D (BEL, India)	Poster	P1
353	123	1570940422	Design and Analysis of Metasurface-Based Hexagonal Shaped CPW Feed Antenna for X Band Applications	Bharathi Venkatesan (Indian Institute of Information Technology Tiruchirappalli, India); Krishnamurthy Ramanujam (Indian Institute of Information Technology, Tiruchirappalli, India); Parthasarathy Ramanujam (National Institute of Technology, Trichy, India)	Poster	P1
354	380	1570945405	Analysis of 2-Bit Unit Cell for Reflect Array Antenna in X - Band Applications	Chatla Monica and Praveen Kitti B (SRM University - Andhra Pradesh, India); Rupesh Kumar (WSI, SRM University AP, India)	Poster	P1
355	147	1570940689	All-Metallic Q-Band 8x8 Gap Waveguide Array Antenna	Shibasish Prusty and Ranajit Dey (Indian Space Research Organisation, India); Kashish Grover (SAC-ISRO, India); Sravan Kumar Sagi (Space Applications Centre ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India)	Automotive Technologies	S25
356	153	1570940721	Design of Hexagonal Pyramidal Conformal Array Antenna for S-Band Applications	Gopi Ram (National Institute of Technology, Warangal, India); Sunitha Mandava (Guntur, India); Arun Kumar Gande (NIT Warangal, India)	Poster	P2
357	157	1570940752	Higher Order Harmonic Generation Using Capacitive Non Linearity of the Step Recovery Diode	Raghvendra Kumar Rai (Bharat Electronics Limited, India)	Poster	P2
358	161	1570940775	Dual-Band Full-Duplex Compact Antenna for DSRC and V2V Application	Ravi Kumar Gangwar (IIT(ISM) Dhanbad, India); Milind Yadav (IIT (ISM) Dhanbad, India); Sachin Maithani (IIT ISM Dhanbad, India & ISM Dhanbad, India); Vivek Sangwan (Center for Reliability Sciences and Technologies, Taiwan)	Poster	P2
359	165	1570940830	Performance Comparison of Large Reflect Array Antenna With and Without Faceted for SAR System	Amit Patel (Charotar University of Science and Technology, India); Jitendra Chaudhari (Chandubhai S Patel Institute of Technology, India); Yogeshwar Prasad Kosta (Charotar University of Science and Technology, India); Akash D Pandya (Chandubhai S Patel Institute of Technology, India); Alpesh D. Vala (Charotar University of Science and Technology, India); Keyur K Mahant (Individual Researcher, India); Pratik B Mevada (Space Application Center-ISRO, India); Milind B Mahajan (Space Applications Centre, ISRO, India); Vijay Kumar Singh (Co-author, India)	Poster	P2
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361	170	1570940870	Transitional Study of Diverse Geometrical Patch Antennas With Secure Unitary Physical Size, GP, Excitation Feed and Impedance Matching Point	Yogeshwar Prasad Kosta (Charotar Institute of Technology-Changa, Gujarat University, India); Kanwar Preet Kaur (Charotar University of Science and Technology (CHARUSAT) & Chandubhai S. Patel Institute of Technology, India); Trushit Upadhyaya (Charotar University of Science and Technology, India); Medhavi Kosta (Einfochips An arrow Company, India)	Poster	P2
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363	186	1570941016	High Gain Series-Fed Gap-Coupled Antenna Array for Millimeter-Wave Applications	Amit Birwal (University of Delhi, India); Kamlesh Patel (University of Delhi South Campus, India)	Poster	P2
364	187	1570941021	An Analysis on Leg Muscles Strengthening Exercises by Using Wearable UWB Technology	Yashika Chauhan and Deepika Sibal (Delhi Technological University, India)	Poster	P2
365	190	1570941040	Dual Circular Polarized Compact Antenna in S-Band for Drone Communication	Mukka Durga Devi (Andhra University, India); Anil Kumar Chepala (Defence Research and Development Organization, India); P V Sri Devi and Singupilla Santoshi Bhanu (Andhra University, India)	Poster	P2
366	208	1570942917	Magnet-Less Circulator With Bulk Acoustic Wave Filter Delay Elements	Kuchibhotla Sri Sai Sravya (University of Hyderabad, India); Chedurupalli Shivakumar (University of Hyderabad (UoH), India); James Raju (University of Hyderabad, India)	Poster	P2
367	209	1570943017	Design of Low-Profile Stacked Patch Antenna for ISM and X-Band Applications	Parthasarathy Ramanujam (National Institute of Technology, Trichy, India)	MIMO and 5G Antennas	S11D
368	210	1570943090	A Tri-Band Quad Feed MIMOTB Antenna With Two-Narrow in Ku-K Bands and n259/n260 5G-mmWave FR2-Bands	Manish Sharma (Chitkara University Institute of Engineering and Technology, India); Kanhaiya Sharma (Symbiosis Institute of Technology, Symbiosis International Deemed University, India & Pune, India); Ganga Prasad Pandey (Pandit Deendayal Energy University, India); Deepak Parashar (Symbiosis Institute of Technology, Pune, India); Rana Gill (Chandigarh University, India); Naresh Kumar (SGT University Gurugram, India)	Poster	P2
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372	218	1570943293	Wideband Fully Metallic Fabry Perot Cavity Antenna With a Curved Ground Plane	Dhyey P Buch (North Carolina State University, India); Shashank Saxena (Indian National Space Promotion and Authorization Centre, India); Dhaval Pujara (Pandit Deendayal Energy University, India)	Poster	P2
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374	224	1570943456	A Meandered T-Shaped Patch Antenna for Microwave Thorax Monitoring	Javaid A. Sheikh (University of Kashmir, Srinagar & Deptt. of Electronics and IT., India)	Medical, Biomedical and Industrial Applications of Microwaves	S19C
375	227	1570943609	In-Situ Surface Crack Detection on Metal Using a Passive Wireless RFID-Based NDT Sensor	Setti Suresh (National Institute of Technology, Trichy, India); M Ravi Prasath (National Institute of Technology, Tiruchirappalli, India); Geetha Chakaravarthi (NITT, India)	Poster	P3
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377	244	1570944289	A Compact High-Gain Metasurface Antenna for 5G Applications	Somak Bhattacharyya (IIT (BHU), India); Sathwik Kommuju (India); Biswa Ranjan Swain (VSSUT, BURLA, India); Diptiranjana Samantaray (IIT (BHU), Varanasi, India)	Poster	P3
378	246	1570944447	Performance Comparison of Loop Based Polarization Dependent/Independent Reflectors for Microwave Frequency Bands	Ashish Kumar Verma (Birla Institute of Technology and Science, Pilani, India); Rahul Singhal (BITS Pilani, India)	Poster	P3
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381	278	1570944804	Transparent Band-To-Band Frequency Reconfigurable Microwave Absorber Using Vanadium Dioxide Based Switchable Ground Plane	Abhishek Mishra, Rahul Vishwakarma and Jyoti Yadav (Indian Institute of Technology Kanpur, India); Yogesh Chauhan (Indian Institute Of Technology, India); Amit Verma (Indian Institute of Technology Kanpur, India)	Poster	P3
382	281	1570944811	Design of C Band 120W Space TWT	Priyanka Natani (Space Applications Centre, ISRO, India); Santhosh Kumar Ramagiri (Space Applications Centre, India); Shilpi Soni (Space Applications Centre & ISRO, India)	Poster	P3
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385	285	1570944864	A Finite Element Analysis of MEMS-Based Magnetolectric Micro Antenna for On-Chip RF Energy Harvesting	Sazid Ali (CARE Indian Institute of Technology Delhi New Delhi Delhi, India); Pushpapraj Singh (IIT Delhi, India); Mujeeb Yousuf (CARE Indian Institute of Technology Delhi, India)	Poster	P3
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388	290	1570944903	High-Sensitivity Dual Notch Microwave Sensor Inspired by Metamaterial for Characterization of Dielectric Materials	Kunal Kumar Singh (Indian Institute of Information and Technology, India); Santosh Kumar Mahto (Indian Institute of Information Technology Ranchi, India); Rashmi Sinha (National Institute of Technology, Jamshedpur, India)	Poster	P3
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391	299	1570944948	Low Power MOSFET Based RF Discharge Oscillator for Rubidium Atomic Clock	Biplab Ghosh (Space Applications Centre, Indian Space Research Organisation (ISRO), India); Bikash Ghosal and Sarathi Mandal (Space Applications Centre, India); Maulik L Bhavsar (Space Applications Centre, ISRO, India); M. Senthilkumar (ISRO, India); Dinesh Kumar Singh (SAC, ISRO, India)	Poster	P3
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