

# Dr Binod Kumar Kanaujia

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Qualifications:

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## Research Interests

Antenna Theory & Design, RF MEMS Microwave Devices, Active and Passive Components, Microstrip antenna, Microwave Engineering, Metamaterial antennas, Computational Electromagnetics, Biomedical telemetry, Dielectric Resonator Antennas (DRA) and Arrays

## Other Profile Links

Google Scholar Link: [Link](#)

## Journal Publications

Year	Name	Author + Title	Link
2023	IEEE Transaction on Antennas and Propagation, vol. 71, No. 5, pp. 3968-3981, 2023	Rakesh Nath Tiwari, Vikrant Kaim, Prabhakar Singh, Taimoor Khan, and Binod Kumar Kanaujia, "Semi-Flexible Diversified Circularly Polarized Millimeter-Wave MIMO Antenna for Wearable Biotechnologies,"	<a href="#">Link</a>
2023	IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology	S. Ahlawat, B K Kanaujia and K. Rambabu, "Flexible and Wearable Dual-Band Differential Extraoral Antenna for eTDS Applications,"	<a href="#">Link</a>
2023	IEEE Transaction on Antennas and Propagation, vol. 71, no.3, pp. 2145-2157	S Ahlawat, N Singh, B K Kanaujia and K Rambabu, "A Dual Band Differential Intraoral Antenna and System for Wireless Data and Radiative Near-field Power Transfer,"	<a href="#">Link</a>
2023		Akanksha Singh, Arvind Kumar, Binod Kumar Kanaujia, "High gain and enhanced	<a href="#">Link</a>

	Optik-International Journal of Light and Electron Optics, vol. 286, pp. 1-15	isolation MIMO antenna with FSS and metasurface"	
2023	International Journal of Circuit Theory and Applications, pp. 1-15,	R Kumar, S Kumar, and B K Kanaujia, "An efficient wideband cascode class FF 1 Doherty power amplifier with control harmonic impedance inverter for X band applications,"	<a href="#">Link</a>
2023	Electronics, vol. 12, pp. 1-11	S S Singhwal, L Matekovits, and B K Kanaujia, "Glue-less Multiple Input Multiple Output Dielectric Resonator Antenna with Improved Isolation,"	<a href="#">Link</a>
2023	Electronics, vol. 12, pp. 1-18	G. Singh, S. kumar, A Abrol, B K Kanaujia, V K Pandey, M. Marey, and H Mostafa, "Frequency Reconfigurable Quad-Element MIMO Antenna with Improved Isolation for 5G Systems,"	<a href="#">Link</a>
2023	IEEE Transaction on Antennas and Propagation, vol. 71, no. 1 pp. 200-214	V. Kaim, N. Singh, B K. Kanaujia, L. Matekovits, K. P. Esselle, and K. Rambabu, "Multi-Channel Implantable Cubic Rectenna MIMO System for Enhanced Wireless Power Transfer in Multitasking Biotelemetry,"	<a href="#">Link</a>
2023	IEEE Transactions on Bio-medical Engineering, vol. 69, no. 11, pp. 3504-3515	V Kaim, B K Kanaujia, S Kumar, HC Choi, KW Kim, & K Rambabu, "Electrally Small Circularly Polarized UWB Intraocular Antenna System for Retinal Prosthesis,"	<a href="#">Link</a>
2023	International Journal of Numerical Modelling: Electronic Networks, Devices and Fields	A Das, S Rewari, B K Kanaujia, S S Deswal, R S Gupta, "Analytical investigation of a triple surrounding gate germanium source metal-oxide-semiconductor field effect transistor with step graded channel for biosensing applications, "	<a href="#">Link</a>
2023	International Journal of Electronics, Taylor and Francis, vol. 110, no. 3, pp. 564-585,	Y Kumar, R K Gangwar, & B K Kanaujia, "Multi-band different polarized monopole antenna with modified ground for WLAN & Wi-MAX applications,"	<a href="#">Link</a>
2023		A Das, S Rewari, B K Kanaujia, S S Deswal, and R S Gupta, "Numerical modeling of a dielectric modulated surrounding-triple-gate germanium-source MOS-	<a href="#">Link</a>

	Journal of Computational Electronics Springer, vol.-22, pp. 742–759	FET (DM-STGGS-MOS-FET)-based biosensor, "	
2023	IEEE Transaction on Antennas and Propagation, vol. 71, no. 2, pp. 1273-1284,	D Surender, M A Hali-mi, T Khan, F A Talukdar, B K Kanaujia, K Rambabu, and A A Kishk, "Analysis of Facet-Loaded Rectangular DR-Rectenna Designs for Multisource RF Energy-Harvesting Applications,"	<a href="#">Link</a>
2023	Scientific Reports, vol. 13, pp. 1-17,	S. Ahlawat, B. K Kanaujia, K. Rambabu, Ildiko Peter, & Ladislau Matekovits, "Circularly polarized differential intra-oral antenna design validation and characterization for tongue drive system	<a href="#">Link</a>
2023	Scientific Report, vol. 13, pp. 1-16,	D. Sharma, B. K Kanaujia, S. Kumar, and Ladislau Matekovits, "Low-loss MIMO antenna wireless communication system for 5G cardiac pacemakers,"	<a href="#">Link</a>
2022	Scientific Report Nature, (USA) vol. 12, no. 01, pp. 3165	Deepti Bhardwaj, Binod k. kanaujia, Sachin kumar, R. Mitra, R K Arya and M Ladislao, "Design and implementation of compact dual-band conformal antenna for leadless cardiac pacemaker system"	<a href="#">Link</a>
2022	IEEE Transaction on Antennas and Propagation (USA), vol. , no., pp. -, (Accepted)	Deepti Bhardwaj, Vikrant Kaim, Binod k. kanaujia, Neeta Singh, Sachin Kumar and K Rambabu, "A Triple Band Circularly Polarized Antenna for Leadless Cardiac Transcatheter Pacing System"	Not Available
2022	IEEE Access, (USA) vol. 10, pp.11846 -11857	Sumer Singh, M Ladislao, Binod k. kanaujia, and I Peter, "A Study on Application of Dielectric Resonator Antenna in Implantable Medical Devices"	Not Available
2022	International Journal of Electronics and Communication AEU Elsevier, (Germany) vol. 145, pp.154079	Saeed Fakhte, Sumer Singh, M Ladislao, and Binod k. kanaujia, "Manipulating the Radiation Pattern of Equilateral Triangular Dielectric Resonator Antenna Using Asymmetric Grooves"	Not Available
2022	International Journal of Microwave and Wireless Technologies Cambridge	S D Choudary, Shilpee Patil, Alka Verma, Ml. Alam, V. M. Kapse, and Binod K. Kanaujia, "Design of dual-polarized triple-band concentric annular-ring mi-	Not Available

	University Press, (UK) vol., No. , pp. (Accepted)	crostrip patch antenna for GPS applications"	
2022	International Journal of Microwave and Wireless Technologies Cambridge University Press, (UK) vol.14, No. 01, pp.65-75	Ghanshyam Singh, Binod k. kanaujia, Vijay Kumar Pandey and Sachin Kumar, "Quad-Band multi-polarized antenna with modified electric-inductive capacitive resonator,"	Not Available
2022	Wireless Personal Communication, vol. 128, pp. 231-248	N S Babu, A Q Ansari, D Gangwar, Binod K Kanaujia, S Kumar, and S K Gupta, "Dual-Band Circularly-Polarized EBG-Based Antenna for Wi-MAX/WLAN/ISM Band Applications,"	<a href="#">Link</a>
2022	Electromagnetics, Taylor and Francis, vol. 42, no. 7, pp. 485-497	S. Gupta, S. Patial, C. Dalela, and B.K. Kanaujia, "Circularly polarized fractal defected ground monopole antenna for Blue-tooth/LTE/CNSS/S-band and CA- band applications,"	<a href="#">Link</a>
2022	International Journal of Circuit Theory and Applications, vol. 54, no. 4, pp. 1548-1569	R Kumar, S Kumar, and B K Kanaujia, "Design of an RF output Class JJ 1 Doherty power amplifier using post-matching varactor diodes for configurable IoT transmitters,"	<a href="#">Link</a>
2022	IEEE Antennas and Propagation Magazine	P P Shome, T Khan, B K Kanaujia, A A Kishk, and Y M. M. Antar, "Uni-directive Miniaturized Ultra-Wideband Antenna for Sensing Buried Objects in Handheld Ground Penetrating Radar Systems,"	<a href="#">Link</a>
2022	IEEE Transactions on Instrumentation & Measurement, Vol. 71, pp. 1-11	A Kandwal, J Li, T Igbe, Y Liu, R Das, B K Kanaujia, and Z Nie, "Young's Double Slit Method based Higher Order Mode Surface Plasmon Microwave Antenna Sensor: Modeling, Measurements and Application,"	<a href="#">Link</a>
2022	Sensors, vol. 22, pp. 1-25	P Sharma, R N Tiwari, P Singh, P Kumar, and Binod K Kanaujia, "MIMO Antennas: Design Approaches, Techniques and Applications,"	<a href="#">Link</a>
2022	AEU-International Journal of Electronics and Communications, vol. 155, PP. 1-11,	P Sharma, R N Tiwari, P Singh, and Binod K Kanaujia, "Dual-band trident shaped MIMO antenna with novel ground plane for 5G applications,"	<a href="#">Link</a>
2022		C Bajaj, D K Upadhyay, S Kumar, and Binod K Kanau-	<a href="#">Link</a>

	AEU-International Journal of Electronics and Communications, vol. 155, PP.1-12	jia, "Compact circularly polarized cross dipole antenna for RFID handheld readers/IoT applications,"	
2022	International Journal of RF and Microwave Computer Aided Engineering, vol. 32, no. 8, pp. 1-10	G Singh, S Kumar, B K Kanaujia, VK Pandey, "Design and implementation of a compact tri band four port multiple input multiple output antenna,"	<a href="#">Link</a>
2022	IEEE Transactions on Instrumentation and Measurement, vol. 1, no. 1, pp. 1-9	S Ahlawat, B k. Kanaujia, and Satya Singh, "Design and Performance Measurement of Implantable Differential Integrated Antenna for Wireless Biomedical Instrumentation Applications,"	<a href="#">Link</a>
2022	IEEE Microwave Magazine, vol. 23 no. 7, pp. 61-77	AM Zaidi, T Khan, MT Beg, B K Kanaujia, & K Rambabu, "Dual-Band Design Techniques for Microwave Passive Circuits: A Review and Applications,"	<a href="#">Link</a>
2022	Electromagnetics, vol. 42, no. 3, pp. 168-180	M K Verma, B K Kanaujia, J P Saini, S Verma, "Stubbed microstrip-line fed broadband circularly polarized square slot antenna for WiMAX Applications,"	<a href="#">Link</a>
2022	Wireless Personal Communication, vol. 125, pp. 3101-3115	Chandni Bajaj, Dharmendra Upadhyay, Sachin Kumar, & B k. Kanaujia, "A Dual-Band Circularly Polarized Hexagonal Ring Antenna for Handheld RFID Readers,"	<a href="#">Link</a>
2022	Micromachines, vol. 13, no.12, pp. 1-14	D K Raheja, S Kumar, S Chakrabartty, and B K Kanaujia, "Design and Development of a Triple-Band Multiple-Input–Multiple-Output Antenna for Sensing Applications,"	<a href="#">Link</a>
2022	International Journal of Microwave and Wireless Technologies Cambridge University Press, vol. 14 no. 8, pp. 1009-1018,	S Patil, A Verma, A K Singh, Binod K Kanaujia, and S Kumar, "A low-profile circularly polarized microstrip antenna using elliptical electromagnetic band gap structure,"	<a href="#">Link</a>
2022	Frequenz, vol.77, no.1-2, pp.39-51,	Y Kumar, R K Gangwar, and Binod K Kanaujia, "Characterization of dual-band circularly polarized mushroom-shaped monopole antenna with modified ground plane,"	<a href="#">Link</a>
2022	Journal of Electromagnetic Waves and Applications, ,	P Chaurasia, B K Kanaujia, S Dwari, & MK Khandelwal, "Analysis and design of	<a href="#">Link</a>

	Taylor and Francis , vol. 36, no. 17, pp. 2384-2400,	double negative metamaterial offering seven operating bands with minimum frequency ratio,”	
2022	Analog Integrated Circuits and Signal Processing, Springer , vol. 111 no. 3, pp. 313-323,	R Kumar, S Dwari, & B K Kanaujia, “Ultra-wideband, high efficiency oriented RF power amplifier using current source MIC technique for wireless monitoring of obstetrics patient,”	<a href="#">Link</a>
2022	Physical and Engineering Sciences in Medicine, Springer, 10.21203/rs.3.rs-1287832/v1,	Amit Das, Sonam Rewari, S Deswal, Binod K. Kanaujia, & S. R. Gupta, “Threshold Voltage Sensitivity Analysis of Surrounding GATE Mosfet for Biosensing Applications,”	<a href="#">Link</a>
2022	Frequenz, vol. 76 no. 3-4, pp. 209-219	S Patil, AK Singh, VK Pandey, B K Kanaujia, AK Pandey, “A simple and compact broadband circularly polarized circular slot antenna for WLAN/WiMAX/DBS applications,”	<a href="#">Link</a>
2022	Frequenz, vol. 76, no. 7-8, pp. 409-419,	S Gupta, S Patil, C Dalela, B K Kanaujia, “Circularly polarized parasitic patch slot antenna using I-tree fractal defected ground structure for CA band applications,”	<a href="#">Link</a>
2022	AEU International Journal of Electronics and Communication AEU, vol. 146, PP.1-12,	G Singh, S Kumar, B K Kanaujia, VK Pandey, “Design and performance analysis of a frequency reconfigurable four-element multiple-input-multiple-output antenna,”	<a href="#">Link</a>
2021	IEEE on Microwave Magazine (USA), vol. , no., pp.,(Accepted)	Aijaz M. Zaidi, Binod k. kanaujia, Taimoor Khan, Mirza Tariq Beg, Karun Rawat, Karumudi Rambabu and Sembiam R. Rengarajan, “Multi-Band Design Techniques for Passive Planar Microwave Circuits: A Review”	Not Available
2021	IEEE on Antennas and Propagation Magazine (USA), vol. , no., pp., (Accepted)	Sumer Singh Singhwal, M Ladislao, Binod k. kanaujia, Saeed Fakhte Balasi, and Jugul kishor, “Dielectric Resonator Antennas: Application and Development in Multiple Input Multiple Output Technology,” DOI (identifier) 10.1109/MAP.2021.3089981	Not Available
2021	IEEE Transactions on Instrumentation & Measure-	Aijaz M. Zaidi, Mirza Tariq Beg, Binod K. Kanaujia, Karun Rawat, Sachin kumar, Karumudi Rambabu,	Not Available

	ments, (USA) vol. 70, no. , pp. (Accepted)	Satya P. Singh and Aime Lay-Ekuakille "A Dual-Band Rat-Race Coupler for High Band Ratio Wireless Applications"	
2021	International Journal of Electronics (UK) vol. , no. , pp. (Accepted)	Yatendra Kumar, Ravi kumar Gangwar, and Binod k. kanaujia, "Multi-Band Different Polarized Monopole Antenna with Modified Ground for WLAN & Wi-MAX Applications"	Not Available
2021	Wireless Personal Communication Springer vol. 118, No. 01, pp.631-646	Hari Singh, Kunal srivastava, Sachin Kumar and Binod K Kanaujia, "A Compact Wideband Flexible Antenna for Wireless Medical Telemetry Services"	Not Available
2021	Frequenz (Germany) vol. , no. , pp. , . (Accepted)	Shilpee Patil, A. K. Singh, V. K. Pandey, Binod. K. Kanaujia and A. K. Pandey, "A simple and compact broadband circularly polarized circular slot antenna for WLAN/WiMAX/DBS applications"	Not Available
2021	International Journal of Electronics (UK) vol. , no. , pp. (Accepted)	Hari Singh, Binod K Kanaujia, Ashwani Kumar, Kunal srivastava and Sachin Kumar, "Dual-Resonance Ultra-Miniaturized Textile Antenna for ISM/Wearable Applications"	Not Available
2021	International Journal of Microwave and Wireless Technologies Cambridge University Press, (UK) vol. , pp. , DOI (Accepted)	Alka Verma, Anil kumar Singh, Neelam Srivastava, Shilpee Patil and Binod K. Kanaujia, "A low-profile circularly polarized microstrip antenna using elliptical electromagnetic band gap structure"	Not Available
2021	IEEE Access, (USA) vol. 09, pp. 118662-118672	Naveen Jaglan, S D Gupta, Binod K. Kanaujia and Mohammad Sharawi, "10 Element Sub-6 GHz Multi-band Double-T based MIMO Antenna System for 5G Smartphones"	Not Available
2021	IEEE Transactions on Instrumentation & Measurements, (USA) vol. 70, no. , pp. (Accepted)	Abhishek Kandwal, Louis WY Liu, Tobore Igbe, Jingzhen Li, Yuhang Liu, Ranjan Das, Binod K Kanaujia and Lei Wang, "A Novel Method of Using Bifilar Spiral Resonator for Designing Thin Robust Flexible Glucose Sensors"	Not Available
2021		Neetu Sehrawat, Binod K Kanaujia, Anshul Agarwal and Gaurav Varshney, "Analysis of Inhomogeneous Circularly Polarized Hollow Dielectric Resonator	Not Available

	MDPI Electronics, (Switzerland) vol. 18, No. 10, pp. 2273-2283	Antenna using Perturbation Theory"	
2021	IEEE Access, (USA) vol. 09, pp. 108601-108613	Karmokar, Sanjeev, Durgesh Nandan, Kunal sri-vastava, and Sachin Kumar Hari Singh, and Binod K Kanaujia "Wideband Circularly Polarized Textile MIMO Antenna for Wearable Applications"	Not Available
2021	Analog Integrated Circuits and Signal Processing, Springer vol. 109, No. 09, pp. 103-113, August 2021	Rakesh Nath Tiwari, Prabhakar Singh and Binod k kanaujia, "Swastika Shaped Slot Embedded Two Port Dual Frequency Band MIMO Antenna for Wireless Applications"	Not Available
2021	IEEE on Microwave Magazine (USA), vol. , no., pp. (Accepted)	Aijaz M. Zaidi, Taimoor Khan, Mirza Tariq Beg, Binod k. kanaujia, and Karumudi Rambabu, "Dual-Band Design Techniques for Microwave Passive Circuits: A Review and Applications,"	Not Available
2021	IEEE Transactions on Instrumentation & Measurements, (USA) vol. 70, no. , pp. 9462046.	Ankit Sharma, Deepak Gangwar, Ravi Prakash Singh, Rashi Solanki, Saurabh Rajpoot, Binod k. kanaujia, Satya Prakash and Lay-Ekuakille, "Design of Compact Wideband Circularly Polarised Hexagon Shaped Antenna using Characteristics Mode Analysis,"	Not Available
2021	SILICON Springer vol. , No. , pp. (Accepted)	Amit Das, Binod K. Kanaujia, Vandana Nath, S Rewari, and R S Gupta, "Recent Technological Advancement in Surrounding Gate MOSFET for Biosensing Applications - A Synoptic Study,"	Not Available
2021	Journal of Computational Electronics Springer vol. 20, No. 03, pp. 1439-1451	Praveen chaurasia, Binod k. kanaujia, Santanu Dwari and Mukesh k. khandelwal, "Theoretical circuit modeling of tetra bands DNG metamaterial by transmission line theory with very small frequency,"	Not Available
2021	Analog Integrated Circuits and Signal Processing, Springer vol. 107, No. 03, pp. 497-510, March 2021	Rajesh Kumar, Shantanu Dwari, Binod k. kanaujia, Sandeep Kumar and Han-jung song, "A 8–12 GHz, 44.3 dBm RF output class FF 1 DPA using quad-mode coupled technique for new configurable front-end 5G transmitters,"	Not Available
2021		Deepti Bhardwaj, Binod k. kanaujia, Sachin ku-	Not Available

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2021	International Journal of RF and Microwave Computer-Aided Engineering, (USA) vol. 31, no. 08, pp. e22737, May 2021	Rakesh Nath Tiwari, Prabhakar Singh and Binod k. kanaujia, "Compact Circularly Polarized MIMO Printed Antenna with Novel Ground Structure for Wideband Applications,"	Not Available
2021	Radio Science AGU, Advance Earth and Space Science (USA) vol. 56, No. 03, pp. e2020RS007122	Amit Kumar, Abdul Quaiyum Ansari, Binod k. kanaujia and Jugul kishor and M Ladislao, "A Review on Different Techniques of Mutual Coupling Reduction Between Elements of Any MIMO Antenna. Part 1: DGSS and Parasitic Structures,"	Not Available
2021	Radio Science AGU, Advance Earth and Space Science (USA) vol. 56, No. 3, pp. e2020RS007222	Amit Kumar, Abdul Quaiyum Ansari, Binod k. kanaujia and Jugul kishor and M Ladislao, "A Review on Different Techniques of Mutual Coupling Reduction Between Elements of Any MIMO Antenna. Part 2:Metamaterials and Many More,"	Not Available
2021	International Journal of Electronics and Communication AEU Elsevier, (Germany) vol. 131, pp.153608	Dinesh Kumar Raheja, Sachin Kumar, Binod k. kanaujia, Sandeep Kumar Palaniswamy, Rama Rao Thipparaju, Malathi Kaganasabai, "Truncated elliptical Self-Complementary antenna with Quad-Band notches for SWB MIMO systems,"	Not Available
2021	Frequenz (Germany) vol. 75, no. 1-2, pp. 35-47	Alka Verma, Anil kumar Singh, Neelam Srivastava, Shilpee Patil and Binod k. kanaujia, "Performance enhancement of circularly polarized patch antenna using slotted circular EBG-based metasurface,"	Not Available
2021	MAPAN, Journal of Metrology Society of India vol. , pp. (Accepted)	Amit Birwal, Sangeev Singh, Binod k. kanaujia and Sachin kumar, "MIMO/Diversity Antenna with Neutralization Line for WLAN Applications,"	Not Available
2021	Wireless Personal Communication Springer vol. 118, No. 01, pp.631-646	Hari Singh, Kunal sri-vastava, Sachin Kumar and Binod k. kanaujia, "A Planar Dual-Band Antenna for ISM/Wearable Applications,"	Not Available
2021			Not Available

	International Journal of Electronics (UK) vol. , no. pp. <a href="https://doi.org/10.1080/00207230.2020.1670749">https://doi.org/10.1080/00207230.2020.1670749</a>	Ghanshyam Singh, Binod k. kanaujia, Vijay Kumar Pandey, Deepak Gangwar and Sandeep Kumar, "A compact alexa-band pattern reconfigurable antenna with defected ground plane,"	
2021	Progress in Electromagnets Research, (USA) vol. 107, no. ,pp. 81-96	Rohit Gurjar, Dharmendra Upadhyay and Binod k. kanaujia, Karishma Sharma, "A Compact U-Shaped UWB-MIMO Antenna with Novel Complementary Modified Minkowski Fractal for Isolation Enhancement,"	Not Available
2021	IET Microwaves Antennas and Propagation, (UK) vol.15, no. 06, pp. 537-546	Gunjan Mittal, Shantanu Dwari, Binod k. kanaujia, Sandeep Kumar and Han-jung song, "Active feedback supported CMOS LNA blended with coplanar waveguide fed antenna for Wi Fi networks"	Not Available
2021	Frequenz (Germany) vol. 75, no. 3, pp. 101-108	Maksud Alam, Amber Khan, Maiuddin, Binod k. kanaujia, Mirza Beg, Sachin "Highly efficient artificial magnetic conductor enabled CPW fed compact antenna for BAN wearable applications,"	Not Available
2021	International Journal of Microwave and Wireless Technologies Cambridge University Press, (UK) vol. 13, No.8 , pp.800-809	Amit Birwal, Sanjeev Singh, Binod k. kanaujia and Sachin Kumar, "A novel design of ultra-wide stopband single-layer frequency selective surface using square-loop and cross,"	Not Available
2021	IEEE Transaction on Antennas and Propagation (USA), vol. 69 , no.03, pp. 1260-1272	Vikrant Kaim, Binod k. kanaujia, and K. Rambabu, "Quadrilateral Spatial Diversity Circularly Polarized MIMO Cubic Implantable Antenna System for Biotelemetry,"	Not Available
2021	Electromagnetic, Taylor and Francis (UK) vol. 13, no.04, pp.397-406, May 2021	Sonal Gupta, Shilpee Patil, Chhaya dalela and Binod k. kanaujia, "Analysis and design of inclined fractal defected ground based circularly polarized antenna for S-band applications,"	Not Available
2020	Electromagnetic, Taylor and Francis (UK) vol.40, no.08, pp.576-593, August, 2020	Alka Verma, Anil Kumar Singh, Neelam Srivastava, Shilpee Patil & Binod k. kanaujia, A compact circularly polarized modified printed monopole antenna for wireless applications,"	Not Available
2020		Rakesh Nath Tiwari, Prabhakar Singh and Binod k. kanaujia, "A Coalesced Kite	Not Available

	Wireless Personal Communication Springer vol. 114, pp. 3031-3048	Shaped Monopole Antenna for UWB Technology,”	
2020	International Journal of RF and Microwave Computer-Aided Engineering, (USA) vol. , no. , pp. e22451	Hari Singh, Binod k. kanaujia, Kunal srivastava, and Sachin Kumar “Wideband textile multiple input multiple output antenna for industrial, scientific and medical (ISM)/wearable applications,”	Not Available
2020	International Journal of RF and Microwave Computer-Aided Engineering, (USA) vol. , no. , pp. e22431	M. K. Verma, Binod k. kanaujia, J. P. Saini, “A Compact Multi Slots Loaded Gap Coupled CP Antennawith DGS for WLAN/WiMAX Applications,”	Not Available
2020	IEEE Access, (USA) vol. 08, pp. 222355-222370	Umesh Singh, Sudip Biswas, Keshav Singh Binod k. kanaujia, and Chih-Peng Li “Beamforming Design for In-Band Full-Duplex Multi-Cell Multi-User MIMO LSA Cellular Networks,”	Not Available
2020	International Journal of RF and Microwave Computer-Aided Engineering, (USA) vol. 30, no. 12, pp. e22431	M. K. Verma, Binod k. kanaujia, J. P. Saini, , “A Compact Multi Slots Loaded Gap Coupled CP Antennawith DGS for WLAN/WiMAX Applications,”	Not Available
2020	Electromagnetic, Taylor and Francis (UK) vol.40, no.08, pp.594-604, August, 2020	Kunal Srivastava, Sachin Kumar, Santanu Dwari, Binod k. kanaujia, and Hyun Chul Choi & Kang Wook Kim “Anisotropic Meta-surface-based Wideband High Gain Circularly Polarized Patch Antenna,”	Not Available
2020	IEEE Access, (USA) vol. , no. , pp. 127123-127133	Yatendra Kumar, Ravi kumar Gangwar, and Binod k. kanaujia, “Characterization of CP radiations in a Planar Monopole Antenna using Tuning Fork Fractal Slot for LTE Band13 / Wi-Max and Wi-Fi Applications,”	Not Available
2020	International Journal of Microwave and Wireless Technologies Cambridge University Press, (UK) vol. 40, No. 07, pp. 526-542	Sonal Gupta, Shilpee Patil, Chhaya dalela and Binod k. kanaujia, “Analysis and design of inclined fractal defected ground based circularly polarized antenna for CA-band applications,”	Not Available
2020		Prasant Chaudary, Ashwani Kumar, Pramod kumar Binod k. kanaujia and Amit Birwal, “Design of a New Metasurface and its Appli-	Not Available

	International Journal of Electronics (UK) vol. 108, no. 03, pp. 411-425	cation for Linear to Circular Polarization Conversion,”	
2020	International Journal of RF and Microwave Computer-Aided Engineering, (USA) vol. 30, no. 10, pp. e22350	Sumer Singh, Binod k. kanaujia, Ajeet Singh, Jugul kishor and M Ladislao, “Dual-Band Circularly Polarized MIMO DRA for Sub-6 GHz Applications,”	Not Available
2020	International Journal of RF and Microwave Computer-Aided Engineering, (USA) vol. 30, no. 10, pp. e22357	Kunal Srivastava, Sachin Kumar, Binod k. kanaujia, and Santanu Dwari, “Design and packaging of ultra-wideband multiple input multiple output/diversity antenna for wireless applications,”	Not Available
2020	IET Circuits, Devices & Systems, (UK) vol. 14, no. 08, pp. 1228-1234	Gunjan Mittal, Binod k. kanaujia, Shantanu Dwari, Sandeep Kumar and Han-jung song, “Performance of An Ultra Wide Band DCBLNA with Suspended Strip line Radiator for Human Breast Cancer Diagnosis Medical Imaging application,”	Not Available
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## Conference Publications

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2021	IEEE International applied Computational electromagnetics Society symposium (ACES), hemilton, Canada,	Rakesh Nath tiwari, Prabhakar Singh, Binod k. kanaujia and P. Kumar, "UWB MIMO Antenna with	Not Available

	1-5 August. 2021, pp. 1-3, (IEEE explores)	Decoupling Strip for 5G Applications	
2021	2021 IEEE International Conference on RFID Technology and Application (RFID-TA), India, 6-8 Oct. 2021, pp. -, (IEEE explores)	Chandni Bajaj, Dharmendra Kumar Upadhyay, Sachin Kumar and Binod Kumar Kanaujia, "Compact Dual-Band Circularly-Polarized Cross-Dipole Antenna for Portable RFID Readers	Not Available
2021	2021 IEEE International Conference on RFID Technology and Application (RFID-TA), India, 6-8 Oct. 2021, pp. -, (IEEE explores)	Chandni Bajaj, Dharmendra Kumar Upadhyay, Sachin Kumar and Binod Kumar Kanaujia, "Compact Circularly Polarized 2.45/5.8-GHz Antenna for RFID Readers	Not Available
2021	2021 International Conference on Communication, Control and Information Sciences (ICCISc), hemilton, India, 16-18 June 2021, pp. -, (IEEE explores)	Chandni Bajaj, Dharmendra Kumar Upadhyay, Sachin Kumar and Binod Kumar Kanaujia, "Circularly Polarized Cross-Dipole Antenna with a Double Layer AMC Backing for UHF RFID Readers	Not Available
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2019	IEEE International Conference on Computing, Power and Communication Technologies (GU-CON)2019, 27-28 Sept. 2019, 978-93-5351-098-5, pp. 563-565, (IEEE explores)	Maksud Alam, Mainuddin, Binod k. kanaujia, M.T. Beg and Sachin Kumar, “A Low Profile Ultrawide Band Antenna for WLAN/Wi-Max/C-Band Wireless applications,”	Not Available
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2018	IEEE Indian Conference on Antenna and Propagation (InCap-2018) 16-19 Dec 2018, Hyderabad International Convention Center, Hyderabad, India. (IEEE explores)	Amit Birwal, Sanjeev Singh and Binod k. kanaujia, “CPW-fed broadband circularly polarized antenna for GNSS and Wi-Fi applications,”	Not Available
2018	IEEE –MTTS, International Microwave & RF conference (IMaRC-2018) Kolkata India, 28-30 Nov. 2018, pp. -. (IEEE explores)	Amit Kumar, Abdul Quaiyum Ansari, Binod k. kanaujia, Jugul Kishor and Prashant Kandpal, “Design of CPW-Fed Triple-Band Two-Port MIMO Antenna with U- Shaped Slot Isolation Structure for High Isolation,”	Not Available
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2016	IEEE International Conference on SMART 2016, T.M.University Moradabad, Nov., 25-27, 2016 (IEEE explores).	Rakesh Nath Tiwari, Prabhakar Singh and Binod k. kanaujia, "Design of microstrip antenna with modified feeding technique for S-band communication system",	Not Available
2017	IEEE INDIACom International Conference 2017, BVICAM New Delhi, March, 01-03, 2017	Rakesh K. Maurya, Binod k. kanaujia, A. K. Gautam, S. Chatterji and A. K. Singh, "ANN and ANFIS Analysis Model for Physical Parameters of circularly polarized Annular Ring Slot Antenna with Truncated Corners",	Not Available
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2017	IEEE INDIACom International Conference 2017, BVICAM New Delhi, March, 01-03, 2017	Kamal Preet Kaur, Neeta Singh and Binod k. kanaujia, "Design of Miniaturized 2.45 GHz Rectenna with Circular Polarization for Wireless Power Transmission",	Not Available
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2016	IEEE APMC 2016, New Delhi, Dec. 5-9, 2016 (to be IEEE explores)	Priyanka Choudhary, D. Kaur, Binod k. kanaujia and S.Dwari, “Triple-Band Frequency Agile Monopole Antenna using PIN diode for Wireless communications”,	Not Available
2015	IEEE AEMC 2015, IIT Guwahati Dec. 18-21, 2015 (IEEE explores)	Rich Chandel, Anil K. Gautam, and Binod k. kanaujia, “Annular ring Antenna for UWB Applications”,	Not Available
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2015	IEEE India International Conference 2015, Jamia Millia Islamia New Delhi, Dec. 17-20, 2015 (IEEE explores)	Deepshikha Shukla, Bimal Datta, and Binod k. kanaujia, “Design of Microwave Imaging based Microstrip Ultra-wideband antenna”,	Not Available
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2015	IEEE India International Conference 2015, Jamia Millia Islamia New Delhi, Dec. 17-20, 2015 (IEEE explores)	M K Arti and Binod k. kanaujia, “Analytical Performance of AF Relaying in Satellite Communication System”,	Not Available
2015	IEEE International Conference on Futuristic Trends on Computational Analysis and Knowledges Management (ABLAZE) Proceedings Amity Greater Noida, India, 25-27 Feb. 2015, pp.242-245 (IEEE explores)	J. P. Keshari, Binod k. kanaujia, Sandeep Kumar, R. M. Mehara and Dinesh kumar Singh, “ Improved Efficiency of Power Amplifier Using CPW for K-band Applications”	Not Available
2014	8th European conference on Antenna and Propagation (EuCAP 2014) pp. 2155-2158, The Hague, Netherlands, 6-11 April 2014. (IEEE explore)	A. K. Singh, Ravi Kumar Gangwar and Binod k. kanaujia, “Cavity Backed Annular Ring Microstrip Loaded with Concentric Circular Patch”,	Not Available
2014	IEEE International Conference on Industrial and Information Systems IIITM Gwalior India 15-17 Dec. 2014, pp.1-4. (IEEE explores)	Krinsna Kant Gupta and Binod k. kanaujia “Miniturization and Bandwidth Enhancement of Microstrip Patch Antenna Using Artificial Ground Structure”	Not Available
2014	IEEE International Microwave & RF conference	Gunjan Srivanstava, Garima Srivanstava, Binod	Not Available

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2014	IEEE International conference on Computational Intelligence and Communication Networks Udaipur India, 14-16 Nov. 2014, pp.30-32. (IEEE explores)	Danish Rashid, Sachin Kumar, Binod k. kanaujia, and A. K. Gautam "Compact Cross Shaped Slit Circularly polarized Microstrip Antenna for GNSS Application",	Not Available
2013	IEEE antennas Propagation Soc. Int. Symp. Dig., Orlando (USA) 7-12 July 2013. (IEEE explore)	A. K Gautam, swati yadav and Binod k. kanaujia "An Inverted L strip UWB Microstrip Antenna,"	Not Available
2013	IACC-2013. (IEEE explore)	Pradeep Rana Subodh Kumar Tripathi Manoj Kumar Pal, Binod k. kanaujia, "Ultra Wide Band Dual Stacked Microstrip Antenna with Narrow Slits,"	Not Available
2013	6th IEEE/International Conference on Advanced Info-comm Technology (ICAIT) Hsinchu, Taiwan, 6-9 July 2013. (IEEE explore)	A. K. Singh, Ravi Kumar Gangwar and Binod k. kanaujia, "Bandwidth Enhancement of L-Probe Proximity-Fed Annular Ring Microstrip Slot Antenna",	Not Available
2013	International Conference on Microwave and Photonics (CMAP-2013) 13-15 December 2013, ISM Dhanbad India. (IEEE explore)	Abhishek Sharma, Binod k. kanaujia, and Sachin Kumar "Compact Microstrip Antenna Loaded with T-shaped Slot Communications"	Not Available
2013	International Conference on Microwave and Photonics (CMAP-2013) 13-15 December 2013, ISM Dhanbad India. (IEEE explores)	A. K. Singh, Ravi Kumar Gangwar, Binod k. kanaujia, and Abhishek Sharma "Effect of Cylindrical Cavity Enclosure on Resonance Frequency of Annular Ring Microstrip Antenna"	Not Available
2013	International Conference on Microwave and Photonics (CMAP-2013) 13-15 December 2013, ISM Dhanbad India. (IEEE explores)	Mukesh kumar Khandelwal, Binod k. kanaujia, Santanu Dwari and Sachin Kumar "Design and Analysis of Microstrip DGS Patch Antenna with Enhanced Bandwidth for Ku Band Applications"	Not Available
2013			Not Available

	International Conference on Microwave and Photonics (CMAP-2013) 13-15 December 2013, ISM Dhanbad India. (IEEE explores)	Dinesh Kumar Singh, Santanu Dwari, Binod k. kanaujia, and Gang Prasad Pandey "L-Strip fed Circularly Polarised Microstrip Antenna with Cross Slots"	
2013	International Conference on Microwave and Photonics (CMAP-2013) 13-15 December 2013, ISM Dhanbad India. (IEEE explores)	Abhishek Sharma, Sachin Kumar, Binod k. kanaujia, and Mukesh kumar Khan-delwal "Truncated Compact Circular Microstrip Antenna Loaded with Asymmetric Slits"	Not Available
2013	IEEE antennas Propagation Soc. Int. Symp. Dig., Orlando (USA) 7-12 July 2013. (IEEE explores)	Binod k. kanaujia Ganga P Pandey and A. K Gautam, "Capacitive Coupled Wide frequency Notched MSA,"	Not Available
2013	IEEE antennas Propagation Soc. Int. Symp. Dig., Orlando (USA) 7-12 July 2013. (IEEE explores)	Ashish Sharma and Binod k. kanaujia, "Dual Band Composite Metamaterial,"	Not Available
2012	Proc. Of the Intl Conf of Advances in Electronics, Electrical and Computer Science Engg.pp. 122-127, EEC2012ISBN:978-981-07-2950-9	Ganga Prasad Pandey, Binod k. kanaujia, Surendra K. Gupta and A. K. Gautam "frequency Agile Stacked Circular Microstrip Antenna for Wireless Systems",	Not Available
2012	Proc. Of the Intl Conf of Advances in Electronics, Electrical and Computer Science Engg, pp.170-175, EEC2012, ISBN: 978-981-07-2950-9	Surendra K. Gupta, Binod k. kanaujia, Ganga Prasad Pandey and A. K. Gautam "MOS Loaed Circular Microstrip Antenna with Air-gap for Modern Communications",	Not Available
2012	IEEE International conference on Computational Intelligence and Communication Networks Mathura India, 03-05 Nov. pp. 10-14, 2012 (IEEE explores)	Ashish Sharma, Surendra K. Gupta, Binod k. kanaujia, Ganga Prasad Pandey and A. K. Gautam "Analysis of Superstrate loaded slit cut Circular Patch Antenna for Triple band Operations",	Not Available
2012	IEEE International conference on Computational Intelligence and Communication Networks Mathura India, 03-05 Nov., pp. 27-31, 2012 (IEEE explores)	Ashish Sharma, Surendra K. Gupta, Binod k. kanaujia and Ganga Prasad Pandey "Compact Multiband Slit cut Circular Patch Antenna over SRR banded Metamaterial Substrate with Shorting Posts",	Not Available
2012	2012 IEEE Asia-Pacific Conference on Antennas and Propagation, APCAP 2012 - Proceedings p 263-264, Singapore August 27-29, 2012 (IEEE explores)	A. K. Gautam, R. Negi and Binod k. kanaujia, "Square Ring Microstrip for Circular Polarization Operation",	Not Available
2012	International conference on Communication and Electronics 2012 KIET Ghaziabad India, 19-20 Oct. 2012	Binod k. kanaujia and Deepti Sharma "Improved Bandwidth and Return loss using Half U-Slot loaded RMPA on E.B.G. Structure",	Not Available

2012	International Conference on Communications, Devices and Intelligent Systems (CODIS), December 28 & 29, 2012, ISBN 978-1-4673-4698-6, pp. 524-526, Jadavpur University Kolkata (IEEE explores)	A K Gautam, Ajay Kumar, Rohit Negi and Binod k. kanaujia. "An Annular-Ring Slot Antenna with pair truncated corners for Circular Polarization Operation"	Not Available
2012	International Conference on Communications, Devices and Intelligent Systems (CODIS) December 28 & 29, 2012, ISBN 978-1-4673-4698-6, pp. 195-197, Jadavpur University Kolkata (IEEE explores)	A. K. Gautam, Sudarshan Joshi, Rohit Negi and Binod k. kanaujia. "Design of Quad Band 2x2 Planar Microstrip Array"	Not Available
2011	IEEE International conference on Computational Intelligence and Communication Networks Gwalior India, 07-09 Oct. 2011 (IEEE explores)	Saurabh Kumar, Binod k. kanaujia and Rajesh Kumar, "Optimization of Resonant Frequency of Circular Patch Microstrip Antenna Using Particle Swarm Optimization,"	Not Available
2011	IEEE International conference on Computational Intelligence and Communication Networks Gwalior India, 07-09 Oct. 2011 (IEEE explores)	Sandeep Sharma and Binod k. kanaujia, "Resonant Frequency of Circular Microstrip Antenna with and without Air Gaps using Bacterial Foraging Optimization Technique,"	Not Available
2011	IEEE International conference on Computational Intelligence and Communication Networks Gwalior India, 07-09 Oct. 2011 (IEEE explores)	Shilpi Patil and Binod k. kanaujia, "Tunable Stacked Circular Microstrip Antenna,"	Not Available
2011	IEEE international conference on microwave, Communications, antenna and Electronic Systems COM-CAS 2011, Israel November 7-9, 2011	A.K. Gautam, Pramod Benjwal and Binod k. kanaujia, "A Compact Square Microstrip Antenna for Circular Polarization",	Not Available
2011	IEEE AEMC Kolkatta Dec. 18-22, 2011 (IEEE explores)	A.K. Gautam, Pramod Benjwal and Binod k. kanaujia, "Active Microstrip Antenna for Circular Polarization",	Not Available
2010	IEEE, International Conference on Computational Intelligence and Communication Networks CICN 10, 26-28 November 2010, pp. 519-522, RGPV Bhopal. (IEEE explores)	Shobhit saxena, Manav R. Bhatnagar and Binod k. kanaujia, "Golden STBC-OFDM for MIMO Communications"	Not Available
2010	IEEE, International Conference on Computational Intelligence and Communication Networks CICN 2010, 26-28 November 2010, pp. 603-607, RGPV Bhopal. (IEEE explores)	Ruchir Gupta, Manoj Mishra and Binod k. kanaujia, "Analysis and Design of Prime Interleaver for Multi-user Iterative IDMA Systems,"	Not Available

2010	International Conference on Microwave Antenna, Propagation & Remote Sensing "ICMARS-2010" 14th to 17th December, 2010	Ganga Prasad Pandey, Binod k. kanaujia and Surendra K. Gupta, "A Novel Ultra Wide Band Circular Microstrip Antenna for Mobile Base Station,"	Not Available
2010	International Conference on Microwave Antenna, Propagation & Remote Sensing "ICMARS-2010" 14th to 17th December, 2010	Surendra K. Gupta, Binod k. kanaujia, Ganga Prasad Pandey and Sumanta Sethi "Analysis of Slot Loaded Equilateral Triangular Microstrip Patch Antenna,"	Not Available
2010	International Conference on Microwave Antenna, Propagation & Remote Sensing "ICMARS-2010" 14th to 17th December, 2010	Alka Verma, Binod k. kanaujia, Neelam Shrivastava and Doshant Verma "Rectangular Microstrip Antenna Symmetrically Loaded with Gunn Diodes,"	Not Available
2010	International conference on Information Security 2010, pp. 1-6, IIIT Allahabad 21st -24th Jan.2010 (IEEE explores)	Pravindra Kumar, Binod k. kanaujia and M. Gangadharappa, "Analytical Results For BER Performance of Rake Receiver in Rayleigh Fading Channel for UMTS environment,"	Not Available
2009	IEEE AEMC Kolkatta Dec. 14-16, pp. 1-4, 2009, (IEEE explores)	Ganga Prasad Pandey, Binod k. kanaujia and Surendra K. Gupta, "Double MOS loaded Circular Microstrip Antenna for frequency Agile,"	Not Available
2008	IET, International conference on wireless, Mobile and Multimedia Networks January 11-12, 2008, pp. 13-16, Mumbai (INDIA) (IEEE explores)	Binod k. kanaujia, Anil k. Singh, R. K. Maurya and Siva Jiaswal, "Concentric Annular Ring Microstrip Antenna Array,"	Not Available
2008	IET, International conference on wireless, Mobile and Multimedia Networks January 11-12, 2008, pp. 9-12, Mumbai (INDIA), (IEEE explores)	Binod k. kanaujia, Anil k. Singh, R. K. Maurya and Indra Preet Kaur, "Frequency Agile Annular Ring Microstrip Aantenna Loaded with IMPATT Diode,"	Not Available
2008	IET, International conference on wireless, Mobile and Multimedia Networks January 11-12, 2008, pp. 78-80, Mumbai (INDIA), (IEEE explores)	R. K. Maurya, Binod k. kanaujia, Anil k. Singh, Brahm Deo Yadav and Ritu Rani, "Wireless Home Security & Teleguard System,"	Not Available
2008	International Conference on Radio Science (ICRS-2008), February 27-29, 2008, Jodhpur (INDIA)	Anil k. Singh, Binod k. kanaujia and Babau R. Vishvakarma, "Design and Consideration of Tunnel Diode Loaded Annular Ring Microstrip Antenna,"	Not Available
2008	International Conference on Radio Science (ICRS-2008), February	Anil k. Singh, Binod k. kanaujia and Babau R. Vishvakarma, "Frequency Agile Annular Ring Microstrip Antenna Symmetri-	Not Available

	27-29, 2008, Jodhpur (INDIA).	cally loaded with MOS Capacitor,"	
2008	International Conference on Radio Science (ICRS-2008), February 27-29, 2008, Jodhpur (INDIA)	R. K. Maurya, Binod k. kanaujia Anil k. Singh, and A. K. Gautam "Rectangular Microstrip Antenna Symmetrically loaded with IMPATT,"	Not Available
2008	First International Conference on Emerging Trends in Engineering & Technology (ICETET-08), Nagpur, July 16-18, 2008	Yatendra Kumar, Anil k. Singh, Binod k. kanaujia and Indra Preet Kaur, "Frequency Agile Circular Patch Antenna Loaded with Gunn Diode,"	Not Available
2007	National Seminar ACST, SRMS-Bareilly, 15th April 2007	Anil k. Singh, Binod k. kanaujia R. K. Maurya and Babau R. Vishvakarma, "frequency agile Microstrip antenna,"	Not Available
2007	ICIIS-2007, Peradeiya, Sri Lanka, August 08-11, 2007	Anil k. Singh, Binod k. kanaujia and Babau R. Vishvakarma, "Design and Development of noise parameter in Gunn loaded annular ring Microstrip antenna,"	Not Available
2003	International conference, ICMARS-2003, JODHPUR, 15-19 Dec. 2003	Binod k. kanaujia and Babau R. Vishvakarma, "Frequency agile annular ring microstrip antenna on ferrite substrate,"	Not Available
2002	National Seminar MD-2002 MJPRU Bareilly March 9-10, 2002	Binod k. kanaujia and Babau R. Vishvakarma, "Gunn Integrated annular ring microstrip antenna,"	Not Available
2002	Proc. APSYM, -2002, Cochin, pp. 32-36	Binod k. kanaujia and Babau R. Vishvakarma, "Active annular ring microstrip antenna,"	Not Available
2002	Proc. NCTMRA-2002, Ambikapur, pp. 9-12	Binod k. kanaujia and Babau R. Vishvakarma, "Tunable annular ring microstrip antenna for mobile communication,"	Not Available
2002	Proc. JINA, Nice, France, Nov. 12-14, 2002	Binod k. kanaujia and Babau R. Vishvakarma, "Analysis of two concentric annular ring resonators using planar waveguide model,"	Not Available
2002	IEEE antennas Propagation Soc. Int. Symp. Dig., Texas (USA) 16-21 June 2002, pp. 466-469. (IEEE explores)	Binod k. kanaujia and Babau R. Vishvakarma, "Some investigations on annular ring microstrip antenna,"	Not Available
2022	International Conference on Advances in Materials Science, Communication and Microelectronics: Materials	G Singh, A Abrol, S Kumar, B K Kanaujia, and V K Pandey, "A compact dual-band antenna with an	<a href="#">Link</a>

	Today: Proceedings, June 17-18, pp. 1-6.	elliptical-shaped meta resonator array,"	
2022	International Conference on Advances in Materials Science, Communication and Microelectronics: Materials Today: Proceedings, June 17-18, pp. 1-7	G Singh, A Abrol, S Kumar, B K Kanaujia, and V K Pandey, "A miniaturized tri-band antenna loaded with D-shaped meta-structures,"	<a href="#">Link</a>
2022	IEEE International Conference on Electromagnetics in Advanced Applications (ICEAA), Cape Town, Sep. 05-09, pp. 336-339	R N Tiwari, P Singh, P Kumar, and B K Kanaujia, "High isolation 4-port UWB MIMO antenna with novel decoupling structure for high speed and 5G communication,"	<a href="#">Link</a>
2023	Materials Today: Proceedings, pp. 1-6	N S Babu, A Q Ansari, B K Kanaujia, G Singh, and S Kumar, "Compact two-port ultra-wideband multiple-input-multiple-output antenna with an electromagnetic band gap structure,"	<a href="#">Link</a>
2023	Materials Today: Proceedings, pp. 1-6.	G Singh, A Abrol, S Kumar, B K Kanaujia, and V K Pandey, "Electromagnetic metamaterial-inspired wideband millimeter-wave antenna for 5G communication,"	<a href="#">Link</a>
2023	IEEE International Conference on Device Intelligence, Computing and Communication Technologies (DIC-CT), March 17th , pp. 1-4	G Singh, A Abrol, S Kumar, B K Kanaujia, and V K Pandey, "Isolation Enhancement in a Two-Element MIMO Antenna using Electromagnetic Metamaterial,"	<a href="#">Link</a>

## Book/Chapter Publications

Type	Title	Publisher	Authors	ISBN/ISSN	Year
Printed Mi-crowave Components for 5G Wireless Applications		Springer	Taimoor khan, Binod Kumar Kanaujia, and Sembiam R. Rangarajan	978-3-030-87604-3	2023
Intelligent Signal Processing and RF Energy Harvesting for State of art 5G and B5G Networks		Springer	Javaid A. Sheikh, Taimoor Khan, and Binod Kumar Kanaujia		2023
Handbook of Metamaterial-Derived Frequency Selective Surfaces	Wideband MM FSS Reflector for CP Millimeter-Wave Antennas	Springer	Amit Kumar, Binod Kumar Kanaujia, and Abdul Quaiyum Ansari	978-981-16-6440-3	2022
Advances in Signal processing	Dual-Band MIMO Antenna with Enhanced Isola-	Springer	Akansha Singh, Arvind Kumar,	978-981-19-5549-5	2022

and Communication Engineering	tion using Fractal Isolators		and Binod Kumar Kanaujia		
Printed Antennas for 5G Networks	Planar Printed MIMO Antennas for 5G Access Points	Springer	Shobhit Saxena, Binod Kumar Kanaujia, Sachin Kumar, and Raj Mittra	978-3-030-87604-3	2022
Printed Antennas for 5G Networks		Springer	Ladislau Matekovits, Binod Kumar Kanaujia, Jugul Kishor, and Surendra Kumar Gupta	978-3-030-87604-3	2022
Multifunctional MIMO Antennas	Design challenges in planar printed MIMO antennas	CRC Press	Shobhit Saxena, Santanu Dwari, Binod K. Kanaujia, Sachin Kumar, and Mandeep Singh	9781003290230	2022
Bioelectronics and Medical Devices	Antennas for Bio-medical Applications Using RF Energy Harvesting	Taylor & Francis	Neeta Singh, Sachin Kumar, Binod Kumar Kanaujia	9781003054405	2021
Bioelectronics and Medical Devices	Compact Monopole Antenna with Circularly Polarized Band for Biomedical Applications	Taylor & Francis	Sachin Kumar, Shobhit Saxena, Garima Srivastava, Sandeep Kumar Palaniswamy, Thipparaju Rama Rao, Binod Kumar Kanaujia	9781003054405	2021
Rectenna: Wireless Energy Harvesting System	Background and Origin of the Rectenna	Springer	Binod kumar Kanaujia, Neeta Singh and Sachin Kumar	978-981-16-2535-0	2021
Rectenna: Wireless Energy Harvesting System	Antennas	Springer	Binod kumar Kanaujia, Neeta Singh and Sachin Kumar	978-981-16-2535-0	2021
Rectenna: Wireless Energy Harvesting System	Matching Network and Rectifier Circuit	Springer	Binod kumar Kanaujia, Neeta Singh and Sachin Kumar	978-981-16-2535-0	2021
Rectenna: Wireless Energy Harvesting System	Rectenna Implementation	Springer	Binod kumar Kanaujia, Neeta Singh and Sachin Kumar	978-981-16-2535-0	2021
Printed Antennas: Theory and Design		CRC Press	Binod kumar Kanaujia, Surendra Kumar Gupta, Jugul Kishor and Deepak Gangwar	9780367614867	2021
	Compact Printed Antenna Designs:	CRC Press	Rakesh nath Tiwari, Prabhakar	9780367420451	2020

Printed Antennas: Theory and Design	Need for UWB Communications		Singh and Binod kumar Kanaujia		
Printed Antennas: Theory and Design	Design of Frequency Selective Surface (FSS) Printed Antennas	CRC Press	Kanishka Katoch, Naveen Jaglan, Samir Dev Gupta and Binod kumar Kanaujia	9780367420451	2020
Printed Antennas: Theory and Design	Advances in Patch Antenna Design Using EBG Structures	CRC Press	Ekta Thakur, Naveen Jaglan, Samir Dev Gupta and Binod kumar Kanaujia	9780367420451	2020
Printed Antennas: Theory and Design	Basic Theory and Design of Printed Antennas	CRC Press	Shilpee Patil, Binod kumar Kanaujia and Anil kumar Singh	9780367614867	2020
Smart Systems and IoT: Innovations in Computing	Smart Compact-Folded Microstrip Antenna for GSM, LTE, and WLAN Applications	Springer	Amit Birwal, Sanjeev Singh, and Binod kumar Kanaujia	978-981-13-8405-9	2020
Energy Conservation for IoT Devices	A New Trend to Power Up Next-Generation Internet of Things (IoT) Devices: Rectenna	Springer Nature	Neeta Singh, Sachin Kumar and Binod kumar Kanaujia	978-981-13-7398-5	2019
Energy Conservation for IoT Devices	Energy-Efficient System Design for Internet of Things (IoT) Devices	Springer Nature	Neeta Singh, Sachin Kumar, Binod kumar Kanaujia, , Hyun Chul Choi and Kang Wook Kim	978-981-13-7398-5	2019
Applications of Artificial Intelligence Techniques in Engineering	An 8-Shaped Self-affine Fractal MIMO Antenna for UWB Applications	Springer Nature	Rohit Gurjar, Dharmendra Upadhyay, Binod k kanaujia and Karishma Sharma	978-981-13-1818-4	2019
Advances in Power Systems and Energy Management	A Compact Dual-Band N-Way Wilkinson Power Divider for GSM	Springer Nature	Aijaz M. Zaidi, Syed A Imam and Binod Kumar Kanaujia	978-981-10-4393-2	2018
Wireless and Satellite Systems	MIMO Based Multi Band Antenna for Wireless Communication in C-Band, X-Band, K-Band and Ku Band	Springer	Kunal Srivastava, Ashwani Kumar, Binod Kumar Kanaujia, Santanu Dwari, A. K. Verma, Mukul Yadav, Josyula Lalita and S. Chamarthi	978-3-319-53849-5	2016
Handbook of Research on Advanced Trends in Microwave	Developments in Efficient Anten-	IGI Global	Naveen Jaglan, Samir Dev Gupta, Binod Ku-	9781522507734	2016

## Research Projects

Role	Pro- ject Type	Title	Fund- ing Agency	From	To	Amount	Status	Co-In- vesti- gator
Principal investigator	Not Available	Design and Development of Biologically Inspired Retinal Prosthesis Based Biomedical Implant to Restore Vision to the Blind	Science and Engineering Research Board (SERB), Government of India	2022-03-01 00:00:00	2025-03-21 00:00:00	23.28 (-Lacs)	Ongoing	Not Available
Principal investigator	Not Available	Design and Development of Wirelessly Powered Nanoscale Integrated Antenna Enabled Leadless Cardiac Pacemaker System for Wireless Monitoring of Heart Health	Indian Council of Medical Research (ICMR), Government of India	2022-03-01 00:00:00	2025-03-21 00:00:00	79.58 (-Lacs)	Ongoing	Not Available
Principal investigator	Not Available	Design and Development of Nanoscale Integrated System Alongwith Conformal Antenna as Capsule Prototype for Wireless Capsule Endoscopy	Department of Science and Technology (DST), Government of India	2021-03-22 00:00:00	2024-03-21 00:00:00	73.85 (-Lacs)	Ongoing	Not Available
CO-Principal		National Institute of	VAJARA SERB			104 (Lacs)	Ongoing	

investiga-tor	Not Avail-able	Tech-nology Silchar (India), Jawahar-lal Nehru University Delhi (India) and California State University North-ridge (USA)	Government of India	2020-07-22 00:00:00	2022-07-21 00:00:00			Not Avail-able
CO-Princi-pal investiga-tor	Not Avail-able	Investiga-tions on Massive MIMO antenna for future Wireless Communi-cation	AICTE, Govern-ment of India	2019	2021-03-01 00:00:00	16.92 (- Lacs)	Com-pleted	Not Avail-able
Principal investiga-tor	Not Avail-able	Design and Devel-op-ment of Metamater-ial based antenna array in millimeter wave frequency for the object detection in dusty atmos-phere	DRDO DLJ, Govern-ment of India	2019	2021	9.87 (- Lacs)	Com-pleted	Not Avail-able
CO-Princi-pal investiga-tor	Not Avail-able	Studies on The Propaga-tion Attenua-tion Charac-teris-tics of 94 GHz Waves in FOG & RAIN	DRDO RCI, Govern-ment of India	2015	2017	21.00 (- Lacs)	Com-pleted	Not Avail-able
Principal Investiga-tor	Not Avail-able	Analysis and Design of Fre-quency Agile Microstrip Antenna for wireless Communi-cation	Depart-ment of Science and Tech-nology Govern-ment of India	2011	2014	47 (Lacs)	Com-pleted	Not Avail-able

Principal investigator	Not Available	Analysis and Design of A Novel Reconfigurable Stacked Microstrip Patch Radiator for wide band applications	AICTE, Government of India	2011	2013	19 (Lacs)	Completed	Not Available
CO-Principal investigator	Not Available	On Wafer RF Characterization of GaAs/GaN Devices & Circuits up to 40 GHz	DRDO SSPL, Government of India	nan	nan	12 (Lacs)	Completed	Not Available
CO-Principal investigator	Not Available	Analysis and Design of WideBand Compact Rectangular Patch Antenna embedded on cylindrical pin structure	SAC Ahmedabad, Government of India	2011	2013	20 (Lacs)	Completed	Not Available

## PhD Supervised

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Mr Umesh Singh	Transceiver design for Full Duplex Spectrum Sharing and Energy Harvesting System	Not Available	nan	Not Available
Ms Deepti Sharma	Design and Implementation of Compact Planar Antennas for Biomedical Applications	Submitted	May 2023	
Ms Sarita Ahlawat	Design and Analysis of Differential Antennas for Biomedical Applications	Submitted	June 2023	
Mr Vikrant Kaim	Design and Analysis of Inplantable Antennas for Biomedical Applications	Awarded	July 2022	
Mr Hari Singh	Investigation on Wearable Antennas	Awarded	July 2022	

	for Body Area Network			
Ms Alka Verma	Design and Analysis of Circular Polarized Microstrip Antenna with EBG Structures	Awarded	February 2022	
Mr Praveen chaurasia	Analysis and Design of Microstrip Antenna using Engineered Material for Modern Wireless Application	Awarded	February 2022	
Mrs Gunjan Mittal	Performance Analysis of Active Antenna Integrated Low Noise Amplifier for Modern Wireless Communication System	Awarded	July 2022	
Mr. Yatendra kumar	Some Investigation of Circular Microstrip antenna	Awarded	March 2022	
Mr Ankit Sharma	Design and Analysis of Metamaterial Loaded Antennas for Low Radar Cross Section and Gain Enhancement	Awarded	December 2021	
Ms Neetu	Theoretical Analysis of Rectangular DRA by Perturbation Technique	Awarded	May 2022	
Mr Mahesh Kumar Verma	SOME INVESTIGATION ON MICROSTRIP ANTENNAS FOR WIRELESS COMMUNICATIONS	Awarded	November 2021	
Mr Rajesh Kumar	Design and Analysis of reconfigurable Microwave Power amplifier for Wireless Application	Awarded	June 2022	
Mr Amit Birbal	Design of compact Antenna for Internet of Things Based (IoT) Based applications	Awarded	November 2021	
Mr Sandeep Sharma	Microstrip Patch Antenna With Defected Ground Structures for Wireless Applications	Awarded	October 2021	
Mr. Maksud Alam	Design and Analysis of Microstrip Antenna for wireless applications	Awarded	August 2021	
Mr. Shobhit Saxena	Design and Development of Planar Wide-Slot Antennas for Contemporary	Awarded	August 2021	

	Wireless Communication Applications			
Mr. Kunal Shrivastava	Design of Wideband and Multiband Microstrip Antennas for Wireless Applications	Awarded	February 2021	
Mr Rakesh Nath Tiwari	Multi-Slotted Planar Radiating Structures for Wideband/Ultra-band applications	Awarded	August 2020	
Ms Neeta Singh	Design and Analysis Rectenna for RF Energy Harvesting Applications	Awarded	August 2020	
Mr D K Raheja	Some Investigation on Elliptical Microstrip Antenna	Awarded	August 2020	
Mr Aijaz Zaidi	Design and Analysis of Multiband Circuits and Systems for Microwave Applications	Awarded	August 2020	
Mr Sumer Singh Singhwal	Some Investigation of Dielectric Resonator Antenna	Awarded	August 2020	
Mr Amit Kumar	Investigations on Mutual Coupling Reduction among Microstrip Antennas	Awarded	July 2020	
Mrs Shilpee	Study and Design of Circularly Polarized Slot Antennas for Wireless Applications	Awarded	November 2018	
Mr Jugul Kishor	Design and Analysis Bandpass Filter Using Ring Dielectric Resonator	Awarded	October 2017	
Mr Jaishanker Prasad Keshari	Design and Analysis of Microstrip antenna based on Active Integrated Device	Awarded	October 2017	
Mr Prabal Pratap	Design and Analysis of Triangular Microstrip Antenna	Awarded	September 2017	
Bhavya Alankar	A System Approach For Exploring Reconfigurable Computing	Awarded	September 2017	
Mr. Rakesh Kumar Maurya	Adaptive Neuro-Fuzzy Based Inference System for Design & Analysis of Microstrip Antenna	Awarded	September 2017	
Mr Naveen Jaglan	Design and Development of Microstrip antenna integrated with Electro-	Awarded	May 2017	

	magnetic Band gap Structures			
Mr. Anil kumar Singh	Compact and Wide-Band Annular Ring Microstrip Antenna	Awarded	November 2016	
Mr Dinesh Kumar Singh	Investigation on Microstrip Antenna for Modern Wireless Communication System	Awarded	February 2016	
Mr Sandeep Kumar	D Design of CMOS Transceiver System with Reconfigurable Microstrip Antenna for Modern Wireless Applications	Awarded	February 2016	
Ms Gunjan Srivastava	Ultra Wideband (UWB) antennas for Wireless Communication Applications	Awarded	February 2016	
Mr Sachin Kumar	Design and Analysis of Microstrip antenna for Circular Polarization	Awarded	April 2016	
Ms Garima Srivastava	Design and Analysis of Ultra Wide Band MIMO antennas for wireless communication	Awarded	March 2016	
Mr Surendra k Gupa	Investigation on Circular Microstrip antenna for Multiband Applications	Awarded	August 2015	
Mr.G P Pandey	Investigation on Radiation Properties of Tunable Microstrip Antenna	Awarded	February 2015	
Mr Mukesh Kumar Khandelwal	Low Profile Microstrip Antenna with Deflected Ground Plane for Wireless Applications	Awarded	February 2015	

## PG Dissertation Guided

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Not Available	Triple-Band Mixed-Polarized Unidirectional Patch Antenna for RFID Reader Applications	Completed	2016	Pratap Gaurav Upadhyay
Not Available	Shifting of Absorption Spectra with shifting of layers for a dou-	Completed	2016	Chetna Joshi

	ble layer Metamaterial Absorber			
Not Available	Design of Miniatuised 2.45 GHz Rectenna with Circular Polarization for Wireless Power Transmission	Completed	2016	Kamalpreet Kaur
Not Available	CSRR Loaded Triple Band triple Polarized Microstrip Antenna	Completed	2016	Tanvi
Not Available	Beam Steering System for Phased Array Antenna Using Reflection Type Phase Shifter	Completed	2016	Gaurav Suman
Not Available	Some Investigation on Rectifier using DGS Antenna	Completed	2015	Neeta Singh
Not Available	Some Investigation on Decorative Transparent Glass Triangular DRA	Completed	2015	Neha Gupta
Not Available	Probe Fed Magneto-Electric Dipole antenna with Low Profile and simple Structure	Completed	2015	km Nishu
Not Available	Design of Planar inverted F antenna for wireless Appliaction	Completed	2015	Priti Singal
Not Available	Design and Analysis of Compact Circular Polarized Microstrip Antenna with Cross Slit Ground Plane	Completed	2014	Danish Rashid
Not Available	Some Investigation on Spiral Antenna using Metamaterial	Completed	2014	Kavita Jha
Not Available	Bandwidth Enhancement of Asymmetric E Shaped Patch Antenna for Circular Polarization	Completed	2014	Gagandeep Singh
Not Available	Design and Analysis of RECTENNA using three Dipole Array for ISM Band	Completed	2014	Swati Sharma
Not Available	Some Investigations on Compact Dual Band and Broadband Patch antenna	Completed	2013	Abhisek Sharma
Not Available	Theoretical Analysis of Rectangular DRA by Perturbation Technique	Completed	2013	Neetu
Not Available		Completed	2013	Nidhi Jain

	Suppression of Cross Polarized radiation in a CMPA with Rectangular Slab DGS and Ministration with U slot in the patch			
Not Available	Design and Analysis of Frequency Agile Elliptical Patch Microstrip Antenna	Completed	2013	Priyanka Saxena
Not Available	Design, Analysis and Development of dual Polarized Aperture Coupled Microstrip antenna	Completed	2013	Somia Sharma
Not Available	Miniaturization and Bandwidth Enhancement of Microstrip Patch Antenna Using Artificial Ground structure	Completed	2013	Krashnkant Gupta
Not Available	Design and characterization of Circular Disk Patch Antenna with Dual Complementary Split Ring Resonators	Completed	2012	Mayank Rai
Not Available	Electrically small antenna using SRR Meta-material	Completed	2012	Chandan Kumar
Not Available	Characterization of circular microstrip patch Antenna for UWB Applications	Completed	2012	Gulzar Ahmed
Not Available	Some Investigation on Circular Microstrip Antenna	Completed	2012	Abhishak Gupta
Not Available	Some Investigation on Annular Ring Loaded circular microstrip Antenna	Completed	2012	Manish Sharma
Not Available	Some Investigation on log Periodic Antenna	Completed	2012	Mukesh Kumar Khandelwal
Not Available	Some Investigation on stacked and slit cut Equitriangular Microstrip Antenna	Completed	2012	Mohammad Nazir
Not Available	Performance of Perfect Space Time Block Code –OFDM in Frequency selective MIMO Channel	Completed	2011	Sachin Kumar
Not Available	Design and Simulation Of A Dual Band Gap Coupled Annular Ring Microstrip Antenna	Completed	2011	Shuchita Saxena

Not Available	Analysis of Polarization Diversity in Correlated Nakagami-m fading channel	Completed	2011	Ravi Kumar Malik
Not Available	Design of Circular Microstrip antenna using Liquid crystal substrate	Completed	2011	Stuti
Not Available	Design of U slot Microstrip Patch antenna on EBG substrate	Completed	2011	Deepti Sharma
Not Available	Design of Circular Microstrip antenna using Liquid crystal substrate	Completed	2011	Anoop Ku Sagar
Not Available	A Circularly Polarized patch antenna on cylindrical Pin structure with Air Gap	Completed	2011	Praful Rangan
Not Available	Design of Circularly Polarized Circular Microstrip antenna using Liquid crystal substrate	Completed	2011	Inderpreet Kaur
Not Available	Performance of Polarization diversity in Rayleigh fading environment	Completed	2010	Deepak Kr.
Not Available	BER performance Analysis of rake receiver in Rayleigh fading channel for UMTS environment	Completed	2010	Pravindra Kr.
Not Available	Optimization of resonant frequency of circular patch Microstrip Antenna using PSO	Completed	2010	Saurabh Kr.
Not Available	Design of optimum interleaver in IDMA system	Completed	2010	Ruchir Gupta
Not Available	Performance of Golden Code in MIMO-OFDM systems	Completed	2010	Shobhit Saxena
Not Available	Optimization of circular ring Microstrip Antenna using Genetic algorithm	Completed	2010	Vikshit Gaur
Not Available	Optimization of circular Microstrip Antenna using bacterial foraging	Completed	2010	Sandeep Sharma
Not Available	Dielectric Resonator Antenna	Completed	2010	Indrapreet Kaur
Not Available	Rectangular Microstrip Antenna Symmetrically	Completed	2010	Alka Verma

	Loaded Active devices			
Not Available	Analysis of gun integrated stacked patch antenna	Completed	2009	Shilpee Patil
Not Available	Analysis of compact H-shaped micro-strip antenna	Completed	2009	Shayna Jain
Not Available	Analysis of active integrated antenna for far field phase	Completed	2009	Swati Vaid
Not Available	An investigation of rectangular patch antenna using meta material	Completed	2009	Vineet Rohilla
Not Available	Analysis of slot loaded triangular patch antenna	Completed	2009	Sumanta Kumar Sethi
Not Available	Design and development of TEM-horn antenna	Completed	2009	Sandhya Malikar
Not Available	Investigation on High Frequency Accelerator	Completed	2009	Devendra Kumar
Not Available	Theoretical Analysis Of Linear Active Circular Antenna Array For Beam Steering	Completed	2009	Amar Sharma
Not Available	Not Available	Filed (Published)	Not Available	Not Available
Not Available	Not Available	Filed (Published)	Not Available	Not Available
Not Available	Not Available	Filed (Published)	Not Available	Not Available
Not Available	Not Available	Filed (Published)	Not Available	Not Available
Not Available	Not Available	Filed	Not Available	Not Available
Not Available	Not Available	Filed	Not Available	Not Available
Not Available	Not Available	Filed	Not Available	Not Available
Not Available	Not Available	Filed	Not Available	Not Available
Not Available	Not Available	Filed	Not Available	Not Available

## Patents

Name	Reg./Ref. No.	Date of Award/Filling	Organization	Status
A High Gain Circular Polarized Antenna and Method of Manufacture	Not Available	29th March 2018	Indian Patent	Filed (Published)
A Circularly Polarised Antenna	Not Available	29th March 2018	Indian Patent	Filed (Published)

Hexa-band Branch Line Coupler Thereof	Not Available	15th Feb. 2019	Indian Patent	Filed (Published)
A Dual Band Branch Line Coupler with Wide Frequency Ratio	Not Available	15th Feb. 2019	Indian Patent	Granted
A Novel Dual Band Out of Phase Power Divider	Not Available	30 Oct. 2019	Indian Patent	Granted
Electrically Small Circularly Polarized UWB Intraocular Antenna System for Retinal Prosthesis	Not Available	22nd Dec. 2020	Indian Patent	Granted
A Textile Material Based Wideband MIMO Antenna	Not Available	22nd Dec. 2020	Indian Patent	Granted
Self Sustainable Power Harvesting Device	Not Available	22nd Dec. 2020	Indian Patent	Filed (Published)
A Novel Glueless Technique to hold a MIMO Dielectric Resonator Antenna onto Substrate with Additional Performance Improvement	Not Available	13th July, 2021	Indian Patent	Filed (Published)
A Compact Far Field Wireless Power Transfer System for Leadless Cardiac Pacemaker	Not Available	04 August 2022	Indian Patent	Filed (Published)
Intra-Heart Low Loss Communication using an Ultra-Compact Dual-Band MIMO Antenna for Dual-Chamber Leadless Pacemaker System	Not Available	01 August 2022	German Patent	Granted
A compact and low loss MIMO antenna communication system for a 5g cardiac pacemaker	Not Available	01 August 2022	German Patent	Granted
A low-loss and an ultra-compact dual-band MIMO Antenna communication system for 5g cardiac pacemaker	Not Available	04 August 2022	Indian Paten	Filed (Published)
A low-loss Loop-Based Ultra Miniature Low-Profile Ultrawideband Capsule Antenna Device	Not Available	24 January 2023	Indian Patent	Filed
An ultra-miniaturized circular-shaped triple band microstrip an-	Not Available	28th May 2023	Indian Patent	Filed

tenna system for intraocular retinal pros-  
thesis and its method thereof

## Admin. Responsibilities

Position Held	Organization	From	To
Director	Dr B R Ambedkar National Institute of Technology, Jalandhar 144 027	2022-02-05 00:00:00	Till Date