


Prasanna Ram Centre for Antenna and Electronic Materials Assistant Professor/ECE		
ORCID ID: 0000-0002-0919-1216	SCOPUS ID: 57216504981	
Email: rprasanna@veltech.edu.in	Mobile: +91 9791313515	
Research Areas Antenna, Graphene Electronics, Printed Electronics, Thermal Coatings		

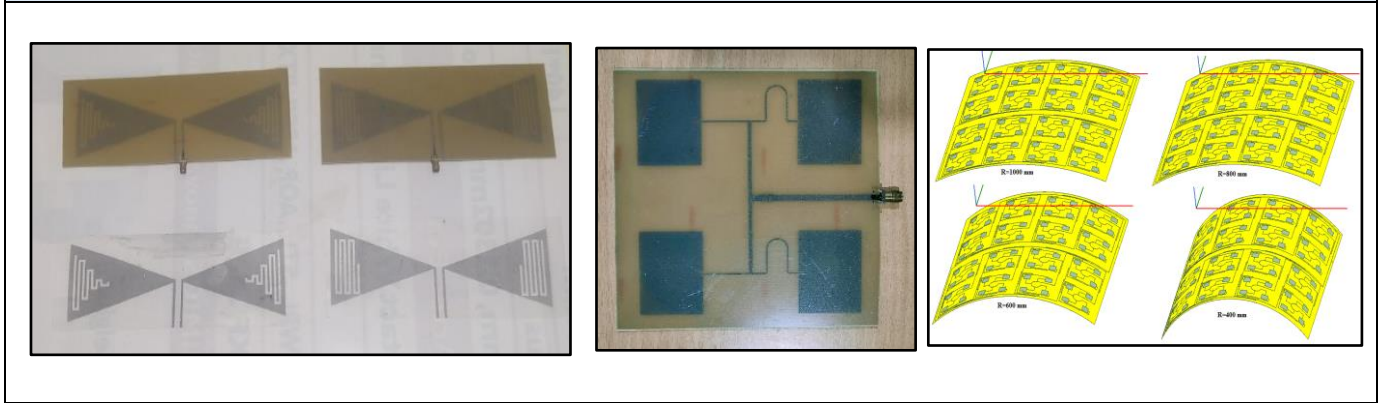
Projects & Publications Summary

Project		Publication Count		Citation Count			Impact Factor	
Completed	00	SCI	009	Citations	Google	SCOPUS		
Ongoing	00	SCOPUS	011		30	7		
Submitted	00	Books	000		h-index	2		1
		Books chapters	000		i10index	1		0

National/International Collaboration

1. ISRO SAC
2. ISRO VSSC
3. DRDO RCI
4. DRDO NAL

Research snippets



Research facilities

1. Dedicated Graphene fabrication Lab Chamber (20ft x 20ft)
2. High Configuration design computing facility (Intel-i7,32GB RAM, 4GB Graphics)
3. 6.5 Digit Digital Multi Meter Facility
4. Microwave power sensors/ Detector (10 MHz-6GHz) Facility
5. Microwave power meter (10 MHz-6GHz) Facility
6. Sheet Resistance meter and Dielectric Constant Meter

Outline of Research Works

1. Graphene Antenna
2. Printed Electronics
3. Material Coating
4. Thermal Management

Details of Funded Projects

S.No	Project Title	Funding agency	Amount (Rs.)	Duration	Collaboration
1.	Design and Development of optimized Miniature Antenna Modules with Duality Function for Inflatable Satellite Antenna Setup	ISRO-Respond	34,92,000/-	2018-22 (Ongoing)	ISRO SAC Ahmedabad
2.	Development of 3D printed flexible patch antennas for enhancement of communication range in UAV	DRDO- UAS	30,17,200/-	2021-23 (Ongoing)	NAL Bangalore

Recent Best 5 SCI Publications

1. Ram, P., Singh, C. , A Novel Graphene Conductive Ink Based Circular Patch Antenna for 2.4 GHz Application, Wireless Personal Communications, 2021, 116(4), pp. 3101–3108
2. Ram, P., Yadav, A., Suman, M.K., Kumar, A., Graphene Based Circular Shaped Micro Strip Patch Antenna Array for 2.45 GHz ISM Band Application, Wireless Personal Communications, 2021, 116(3), pp. 1613–1620
3. Ram, P., Masoodhu Banu, N.M., Rachel Jeeva Light, R., Design and Testing of Graphene-Based Screen Printed Antenna on Flexible Substrates for Wireless Energy Harvesting Applications, IETE Journal of Research, 2021
4. Ram, P., Banu, N.M.M., Light, R.R.J., Multilayer screen printed flexible graphene antenna for ISM band applications and energy harvesting, Materials Today: Proceedings, 2021, 45, pp. 2508–2513
5. Ram, P., Rajakumaran, R.J.L., Chithoor Santharam, R., Nancheri, J., Ogirala, M.G., Feasibility analysis of additive manufacturing method for graphene based super solar body mounted patch antenna for satellite applications, SN Applied Sciences, 2020, 2(4), 595

Patents

1. 3866/CHE/2014- Graphene based dome shaped phase array antenna for space communication
Granted Application, Patent Number: 336136
2. 6848/Che/2015-Umbrella Based Duality Module for Future Space Technology.
Granted Application, Patent Number: 383696
3. 202141044586- Graphene based screen printed Antenna on Flexible substrates for wireless Energy Harvesting Applications
Application Awaiting Examination
4. 202141044585- Multilayer screen printed flexible Graphene Antenna for ISM Band Applications and Energy Harvesting
Application Awaiting Examination
5. 202141052733- A Compact Unidirectional Graphene based Array antenna with Efficient phase optimized feeding structure
Application Awaiting Examination