

Facilitation Centre for Industrial Plasma Technologies

Institute for Plasma Research

Gandhinagar

Photo	<p>Name : Dr. G. Ravi</p> <p>Qualification : Ph.D. (Physics, Institute for Plasma Research)</p> <p>Designation : Scientific Officer – F</p>
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Field of Work	Plasma Applications for Societal and Industrial benefit, Plasma Devices and Diagnostics
Research Interests	Plasma Waves, Electron Magneto Hydro Dynamics
Projects and Technologies	<ul style="list-style-type: none"> • Very Low Pressure Plasma Spray Coatings • Exhaust Gas Treatment using Plasma • Plasma Sterilization of Medical Equipment • High Power Torch System
Publications (IEEE format) (Restricted to 10)	<ul style="list-style-type: none"> • Popular article (Gujarati): "Plasma - A Green and Clean Energy Source" in the Annual Magazine "<i>Pragami – Journal of Articles on Physics and Related Areas</i>" (12, 2020, ISSN 2347 2782) published by Indian Association of Physics Teachers, IAPT RC - 7 (Gujarat Region) • "Whistler wave propagation and interplay between electron inertia and Larmor radius effects", Garima Joshi, G. Ravi and S. Mukherjee, <i>Physics of Plasmas</i> 26, 042106 (2019) • "Role of return currents in the dynamics of a magnetically rastered plasma torch", Vidhi Goyal, G. Ravi, and S. Mukherjee, <i>Physics of Plasmas</i>, 25, 073504 (2018) • "A new linear plasma device for the study of plasma waves in the electron magneto hydrodynamics regime", Garima Joshi, G. Ravi, S.

	<p>Mukherjee, Pramana - <i>Journal of Physics</i>, 90:79 (2018)</p> <ul style="list-style-type: none"> • "Influence of the Shroud Gas Injection Configuration on the Characteristics of a DC Non-transferred Arc Plasma Torch", Yuges, V., G. Ravi, K. Ramachandran, V. Goyal, K. C. Meher, <i>Plasma Chemistry and Plasma Processing</i>, 38, 759 – 770 (2018) • "Observations of elongated whistler waves in the inertial regime", Garima Joshi, G. Ravi and S. Mukherjee, <i>Physics of Plasmas</i>, Vol.24, pp.122110 (2017) • "Prediction of operational characteristics of a dc non-transferred arc plasma torch using similarity criteria", Yuges V., G. Ravi, and K. Ramachandran, <i>European Physical Journal D</i>, 71:247 (2017) • "Study of dynamical behaviour of the plasma in a dc non-transferred plasma torch using fast imaging", Vidhi Goyal, G. Ravi, P. Bandyopadhyay, S. Banerjee, V. Yuges, and S. Mukherjee, <i>Physics of Plasmas</i>, 24, 033506 (2017) • "A dipole probe for electric field measurements in the LVPD", P K Srivastava, L M Awasthi, G. Ravi, Sunil Kumar and S K Mattoo, <i>Measurement Science and Technology</i>, 27, 015902 (2016) • "Non thermal plasma at atmospheric pressure system: design and development", Supin Gopi, Arun Sarma, Ashish Patel, G. Ravi, <i>Instrumentation Science and Technology</i>, 41, 651 (2013)
<p>Academics</p>	<p>Research Guidance:</p> <ul style="list-style-type: none"> • Ph.D. – Awarded: 03, Guiding: 03 • M.Phil – Awarded: 01 • M.Tech – Awarded: 01 • M.Sc. (Engg.) – Awarded: 01