

Facilitation Centre for Industrial Plasma Technologies

Institute for Plasma Research

Gandhinagar



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Field of Work

- Plasma Nitriding
- Plasma Carburizing
- Plasma Nitrocarburizing

Projects and Technologies

- Development of Industrial Scale Plasma Carburizing system.
- Up-gradation of Pulsed DC Power Supply of Plasma Nitriding Unit
- Set-up of Industrial Scale Plasma nitriding system at FCIPT.
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Publications (IEEE format)

- 1) **Biocompatibility and Cyclic Fatigue Response of Surface Engineered Ti6Al4V Femoral Heads for Hip-Implant Application”**
Aniruddha Samanta, Ramkrishna Rane, Ghanshyam Jhala, Biswanath Kundu Susmit Datta, Alphonsa Joseph, Subroto Mukherjee, Sandipan Roy, Anoop Kumar, Mukhopadhyay
- 2) **Bio-tribological response of duplex surface engineered SS316L for hip-implant application**
Aniruddha Samanta, Ramkrishna Rane, Biswanath Kundu, Susmit Datta, Jiten Ghosh, Ghanshyam Jhala, Alphonsa Joseph, Subroto Mukherjee, Sandipan Roy, Mitun Das and Anoop K. Mukhopadhyay
- 3) **Surface engineering analysis of plasma-nitrided die steels**
Ashish Kumar, Manpreet Kaur, Alphonsa Joseph, Ghanshyam Jhala

	<p>4) Influence of pre-treatment on surface behavior of duplex plasma treated AISI H13 Kalyan Das, J. Alphonsa, Manojit Ghosh, J. Ghanshyam, Ramakrishna Rane, S.Mukherjee</p> <p>5) Characterization of Ti-6Al-4V alloy modified by plasma nitriding process Vaibhav N. Bhavsar, Jyoti Shankar Jha, Ghanshyamsinh Jhala, Alphonsa Joseph, Sushil Mishra, Asim Tewari</p>
<p>Patents</p>	<ul style="list-style-type: none"> •
<p>Awards</p>	<ul style="list-style-type: none"> •