

**JAMAL MOHAMED COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI.**

**DEPARTMENT OF PHYSICS**

1. Name : **M. Jamal Mohamed Jaffar**
  
2. Designation : Associate Professor & Head of the Department
  
3. Educational Qualifications : M.Sc., M.Phil., Ph.D., M.Ed., MBA., PGDHET.,  
Pursuing Ph.D., (Educational Technology)
  
4. Teaching Experience: 26 years
  
5. Details of Publications:
  - In International Journals: 05
  - In National Journals: 03
  
6. Details of Paper Presented:
  - In International Conferences: 9
  - In National Conferences: 30
  
7. Soft Skill Trainer

## Publications List:

### In International Journals:

- 1) "Opto Electronic device for measuring rate of air flow" in the Indian Journal of Pure & Applied Physics, Vol.35, 1997, p 739-742.
- 2) "Metal – Ceramic Composite Layer Formation on Al-Si alloy by Laser Processing" in the Lasers in Engineering, Vol 15,2005, P.No.267 – 283.
- 3) "Laser Assisted Al-Si-SiC Composite Layer Formation on an Al-Si Alloy" in the Lasers in Engineering, Vol 15,2005, P.No.267 – 283.
- 4) "Laser surface modification AISI 316L SS with SiC-Fe-Ni-Cr" in the Journal of Minerals, Metals and Materials Society, Vol.56, No.11. 2006, p 101.
- 5) "Laser surface modification of AISI 316L SS with SiC-Fe-Ni-Cr, accepted for publication by the Lasers in Engineering Journal.

### In National Journals:

- 1) "Laser Assisted Composite Layer formation on Al-Si alloy" in the JARJ.Int. – Jan – June,2004. Vol .1,No.1,p.108 – 112.
- 2) "Laser Surface modification of Al-Si alloy with Fe-Cr-SiC predeposit" in the JARJ.Int. – July – Dec,2005. Vol .2,No.2,p.84 – 88.
- 3) "Lacuna and its remedies in Faculty development in Higher Education", RETELL, Vol-9, No.1, March 2009 – ISSN 0973 – 404X, PP.92-95.

## Paper Presentation List:

### In International Conferences:

- 1) "Measurement of Diameter of wires using Laser And Optical fibers Proceeding of IEEE, presented in Instrumentation and Measurement Technology Conference Vol .2 p.931, St.Paul, Minnesota, USA, during May 18-20,1998.
- 2) "Formation of Metal Ceramic Layer on Al Alloys (Al-12Si) by Laser Processing" in the International Conference "2003-TMS Annual Meeting, Surface Engineering Symposium in Material Science II " held at San Diego, California, USA during 2<sup>nd</sup> -6<sup>th</sup> May , 2003.
- 3) "Al-Si-SiC Composite Layer Formation on Al-Si Alloy by Laser Processing" presented in the International Conference on "Advances in Surface Treatment Research and Applications " (ASTRA-2003) held at Hyderabad during November 3-6 ,2003.

- 4) Surface Modification of 316L Stainless Steel with Cr and SiC by Laser Processing presented in the International Conference on “Advances in Surface Treatment Research and Applications “ (**ASTRA-2003**) held at Hyderabad during November 3-6 ,2003.
- 5) “Surface Modification of Al-Si alloy with Cr-SiC ” presented in the “International Convention on Surface Modification **INCOSURF-2003** conducted at ISRO ,Bangalore during 15-18 August,2004.
- 6) “Laser Melting of Graded coating(Fe-SiC-Ni-Cr) on AISI 316L Stainless Steel”, Proceedings of surface engineering in Materials Science III, 2005 TMS Annual Meeting, San Fransisco, California, Feb 13-17, 2005, pp37-48.
- 7) “Laser Assisted Surface alloy of substrate with Fe – Cr – Si precoat ” presented in the International Conference on Optics and Optoelectronics (**ICOL-2005**) during 12<sup>th</sup> to 15<sup>th</sup> December’2005,p.214.
- 8) “Fiber optic sensor incorporated liquid layer thickness estimator” presented in the International Conference on Optics and Optoelectronics (**ICOL-2005**) during 12<sup>th</sup> to 15<sup>th</sup> December’2005,p.147.
- 9) “Laser surface modification of AISI 316L stainless steel with Si<sub>3</sub>N<sub>4</sub> and Ti” presented in the International Conference on Optics and Optoelectronics (**ICOL-2005**) during 12<sup>th</sup> to 15<sup>th</sup> December’2005, p.422.