

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	IPR, Gandhinagar/ HBNI	2012	NA	Physics
M.Sc.	University of Delhi	2006	First	Physics
B.Sc.	C. S. J. M. University, Kanpur,	2004	First	Physics, Mathematics, Chemistry
Intermediate	U. P. Board	2000	First	Physics, Mathematics, Chemistry, English, Hindi
High School	U. P. Board	1998	First	Science, Mathematics, Biology, Social Science, English, Hindi

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2017	Relocation allowance of 3000 Euro based on academic excellence	City of Marseille, France
2012	International travel support	Department of Science & Technology, India
2006	CSIR NET (JRF)	CSIR-UGC, India

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12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2012	Max-Planck Princeton Postdoctoral Fellowship	Max-Planck Princeton Center for Plasma Physics	12/2012	11/2016
2006	Research Fellowship	IPR, Gandhinagar	09/2006	05/2012

13. Details of Academic Work

- (i) Curriculum Development
- (ii) Courses taught at Postgraduate and Undergraduate levels
- (iii) Projects guided at Postgraduate level
- (iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award

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16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
January 12-15, 2016	5 th MPPC Conference and Workshop	International	Speaker	Max-Planck Princeton Center for Plasma Physics	Berlin, Germany
December 07-09, 2015	MHD-Days Workshop	International	Speaker	TU, Ilmenau, Germany	Ilmenau, Germany
April 16-20, 2012	International Workshop on Laser-Plasma Interaction at Ultra-High Intensity, Dresden	International	Paper presenter	Max-Planck Institute for the Physics of Complex System Research, Dresden, Germany	Dresden, Germany
October 29- November 2, 2012	54 th Annual Meeting of the APS Division of Plasma, USA	International	Speaker	American Physical Society	Providence, RI, USA
January 12-15, 2010	International Symposium On Waves, Coherent Structures & Turbulence in Plasmas	International	Paper presenter	Institute for Plasma Research, Gandhinagar	Gandhinagar
December 08-11, 2010	25 th National Symposium on Plasma Science and Technology	National	Paper presenter	Institute of Advance Studies in Science & Tech. (IASST) Guwahati	Guwahati

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December 08-11, 2009	24 th National Symposium on Plasma Science and Technology	National	Paper presenter	National Institute of Technology, Hamirpur	Hamirpur
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17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue

18. Invited Talks delivered

Topic	Date	Inviting Organization
Breaking of longitudinal relativistic plasma waves and fourth order finite volume numerics for simulating accretion disks	October 14, 2016	Physical Research Laboratory, Ahmedabad
Fourth order accurate finite volume numerics for simulating accretion disks	October 10, 2016	Institute for Plasma Research, Gandhinagar
Physics of nonlinear oscillations/waves in plasma and numerics of nonlinear MRI simulations	September 6, 2016	HZDR, Dresden, Germany
Fourth-order accurate finite-volume numerics for MRI simulations	January 15, 2016	5th MPPC Conference and Workshop, Berlin, Germany
Study of nonlinear oscillations and waves in plasma	August 16, 2012	IIT, Kanpur

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life)	Organization	Membership No. with date

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Member)		
Life Member	Plasma Science Symposium of India	LM-734, 2007

20. Academic Foreign Visits

Country	Duration of Visit	Programme
France	15 Months (March 2017- June 2018)	Worked as a CNRS Researcher at Aix-Marseille University, France
Germany	4 Years (December 2012 - November 2016)	Worked as a Postdoctoral Fellow at TU Berlin, Germany
USA	1 Week (October 2012)	International Conference
Germany	1 Week (April 2012)	International Workshop
Italy	Three Weeks (August 2009)	International Summer School

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
P. S. Verma	Lower-hybrid oscillations in a cold magnetized electron-positron-ion plasma	AIP Advances	8	035022	2018	1.568
P. S. Verma	A novel numerical scheme for nonlinear electron plasma oscillations	Physics of Plasmas	25	032107	2018	2.115
P. S. Verma , T. C. Adhyapak	Nonlinear electrostatic oscillations in a cold magnetized electron-positron plasma	Physics of Plasmas	24	112112	2017	2.115

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P. S. Verma	Generation of low frequency plasma waves after the wave-breaking	Physics Letters A	381	4005-4010	2017	1.772
P. S. Verma , W.-C. Mueller	Higher order central schemes for multi-dimensional hyperbolic problems	Journal of Scientific Computing	73	1-29	2017	1.899
P. S. Verma	Nonlinear oscillations and waves in multi-species cold plasma	Physics of Plasmas	23	122125	2016	2.115
P. K. Kaw , S.Sengupta , P. S. Verma	Spatio-temporal evolution and breaking of Double layers: a description using Lagrangian hydrodynamics	Physics of Plasmas	19	102109	2012	2.115
P. S. Verma , S.Sengupta , P. K. Kaw	Residual BGK like waves after one-dimensional electron wave breaking in a cold plasma	Physical Review E	86	016410	2012	2.366
P. S. Verma , S.Sengupta , P. K. Kaw	Breaking of longitudinal Akhiezer-Polovin waves	Physical Review Letters	108	125005	2012	8.462
P. S. Verma , S.Sengupta , P. K. Kaw	Bernstein-Greene-Kruskal waves in relativistic cold plasma	Physics of Plasmas	19	032110	2012	2.115
P. S. Verma	Nonlinear oscillations and waves in an arbitrary mass ratio cold plasma	Physics of Plasmas	18	122111	2011	2.115
P. S. Verma , S.Sengupta , P. K. Kaw	Nonlinear evolution of an arbitrary density perturbation in a cold homogeneous unmagnetized plasma	Physics of Plasmas	18	012301	2011	2.115
P. S. Verma , J. K. Soni , S.Sengupta , P. K. Kaw	Nonlinear oscillations in a cold dissipative plasma	Physics of Plasmas	17	044503	2010	2.115

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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number