

Dr. Vipin Kumar Yadav

Scientist/Engineer – SF

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Research Area: Plasma Physics, Space Plasma Physics, Plasma Waves, Plasma diagnostics, Plasma wave instrumentation, Space-borne Particle Detectors, Electric and Magnetic field measurements in Space.

Academic Qualifications

S. No.	Degree	Year	Details
1.	PDF	2006	Plasma Physics; Institute for Plasma Research, Gandhinagar, Gujarat, India
2.	Ph.D.	2004	Physics, Thesis title: Studies on ECR produced Plasmas; Gujarat University, Ahmedabad, India
3.	M.Sc.	1995	Physics, Specialization: Plasma Physics; Department of Physics, University of Rajasthan, Jaipur, India
4.	B.Sc. B.Ed.	1992	Physics (Honors); Regional College of Education (RCE), MDS University, Ajmer, India

Professional Background:

Designation	Duration	Institution
Scientist/Engineer SF	January 2018 – till date	SPL, VSSC, Trivandrum, India
Scientist/Engineer SE	July 2012 – December 2017	SPL, VSSC, Trivandrum, India
Scientist/Engineer SD	December 2010 – June 2012	SPL, VSSC, Trivandrum, India
Scientist/Engineer SD	April 2006 – November 2010	Indian Centre for Space Physics (ICSP), Kolkata, India
Post-Doctoral Fellow	October 2004 – March 2006	Institute for Plasma Research (IPR), Gandhinagar, India
Research Scholar	September 1997 – September 2004	Institute for Plasma Research (IPR), Gandhinagar, India

Awards/Honors/Recognition/Acclamations

Reviewer for Journals

01. *Acta Astronautica*; Elsevier, Amsterdam, The Netherlands.
02. *Advances in Space Research*; Elsevier, Amsterdam, The Netherlands.
03. *Indian Journal of Radio & Space Physics*, India.
04. *Reviews of Modern Plasma Physics*; Switzerland.
05. *IEEE Transactions on Plasma Science*; USA.
06. *Physics of Plasmas*; USA.

Scientific sessions Judged

01. Poster Session “Space Plasmas”; 27th National Symposium on Plasma Science & Technology (Plasma 2012); December 10–13, 2012; Puducherry, India.
02. Student Paper Competition; 1st URSI Regional Conference on Radio Science (RCRS-2014); January 02 – 05, 2014; Pune, India.
03. Poster Session “Plasma Processing”; 29th National Symposium on Plasma Science & Technology (Plasma 2014); December 08–11, 2014; Kottayam, India.
04. Poster Session “Nuclear Fusion”; 29th National Symposium on Plasma Science & Technology (Plasma 2014); December 08–11, 2014; Kottayam, India.
05. Student Paper Competition; 3rd URSI Regional Conference on Radio Science (RCRS-2017); March 01 – 04, 2017; Tirupati, India.
06. Poster Session “Space Plasmas”; 32nd National Symposium on Plasma Science & Technology (Plasma-2017); November 07-10, 2017; Gandhinagar, India.

Major Additional Responsibilities

1. Principal Investigator (PI); Fluxgate Magnetometer onboard Aditya-L1 Solar Mission
2. Principal Investigator (PI); VIPER (Venus Ionospheric Plasma wavE detectoR) onboard Venus Orbiter Mission.
3. Principal Investigator (PI); PADMA (Plasma wAve Detector for MArs) onboard Mars Orbiter Mission -2.
4. Project Manager (PM) [Langmuir Probe (LP) – Payload Characterization], RAMBHA (Radio Anatomy of Moon Bound Hyper-sensitive Atmosphere & Ionosphere) onboard Chandrayaan-2 Lander.
5. Project Manager (PM) [Material Management and Sub-system Development], CHACE-2 (CHandra Atmospheric Composition Explorer–2) onboard Chandrayaan-2 Orbiter since May 2017.
6. Project Manager (PM) [Payload Development], CHACE-2 (CHandra Atmospheric Composition Explorer–2) onboard Chandrayaan-2 Orbiter during April 2014 – May 2017.
7. Deputy Project Manager (DPM) [Payload Development]; MENCA (Mars Exospheric Neutral Composition Analyser) onboard Mars Orbiter Mission (MOM); September, 2011.

Membership in Professional Bodies:

International

01. Member (1393), Association of Asia-Pacific Physical Societies – Division of Plasma Physics (AAPPS-DPP), Kyoto, **Japan**.
02. URSI Individual Member (MURSI No. M1810501857), International Union of Radio Science, Ghent, **Belgium**.
03. Associate of COSPAR (Committee on Space Research), Paris, **France**.
04. Individual Member, IAU (International Astronomical Union), Paris, **France**.
05. Member, International Low Temperature Plasma Community (ILTPC), **USA**.
06. Regular Member (ID 589552), European Geosciences Union (EGU), **Germany**.

National

01. Plasma Science Society of India (**PSSI**), Gandhinagar, Gujarat.
02. Indian Centre for Space Physics (**ICSP**), Kolkata.
03. Astronomical Society of India (**ASI**), Hyderabad.
04. Indian Physical Society (**IPS**), Kolkata.
05. Indian Physics Association (**IPA**), Mumbai.
06. Indian Vacuum Society (**IVS**), Mumbai.
07. Magnetics Society of India (**MSI**), Hyderabad.
08. The Indian Science Congress Association (**ISCA**), Kolkata.
09. Indian Society of Atomic & Molecular Physics (**ISAMP**), Ahmedabad.
10. Space Society of Mechanical Engineers (**SSME**), Ahmedabad.
11. Life member (LM638), Indian Society of Systems for Science & Engineering (**ISSE**), Thiruvananthapuram.
12. Life member, Indian Space Scientists Association (**ISSA**), Trivandrum.
13. Life member (LM-11071), Indian Nuclear Society (**INS**), Mumbai.
14. Life member (L-161), Thermophysical Society of India (**TPSI**), Jaipur.
15. Life member (LM-500), Indian Society for Particle Accelerators (**ISPA**), Indore.
16. Life member, Energy Science Society of India, Puducherry.
17. Member (M2019049), Indian Radio Science Society (InRaSS), New Delhi.

Organization of Conferences/Symposia/Workshop

01. Member, LOC; “2nd Kolkata Conference on Observational Evidence for Black Holes in the Universe” & Satellite meeting on “Black Holes, Neutron Stars and Gamma Ray Bursts”; February 10-17, 2008; S.N. Bose National Centre for Basic Sciences (SNBNCBS), Kolkata.
02. Member, Scientific Organizing Committee (SOC); Workshop on “Multi-payload and

Multi-Observatory Science with Aditya-L1” (WS6); XXXIX Meeting of the Astronomical Society of India (ASI); February 18-23, 2021; Online-Mode.

Publications:

Books edited (1)

1. Comment Editor, Proceedings of the 27th National Symposium on Plasma Science & Technology “Plasma 2012” June 2013.

Chapters in Books (2)

01. Vipin K. Yadav; Plasma Diagnostics in Space onboard Planetary Missions; *Advances in Experimental and Theoretical Physics*; Editor: Unnikrishnan Kaleekkal; June, 2017, 72–78; NSSHC Press, NSS Hindu College, Changanacherry 686 102, Kerala, India; ISBN: 978-81-933197-0-3

02. Vipin K. Yadav and Anil Bhardwaj; Plasma Waves beyond the Solar System; *Plasma and Fusion Science: From Fundamental Research to Technological Applications*; Part II: Space and Atmospheric Plasma, Chapter 15; Editors: B. Raneesh, Nandakumar Kalarikkal, Jemy James, Anju K. Nair; January, 2018; 231–241; Apple Academic Press, USA; Hard ISBN: 978-1-77188-453-2, E-Book ISBN: 978-1-315-36594-7

Journals (23)

1. Vipin K. Yadav & D. Bora (2004), “Ultrasoft x-ray emission from a linear ECR plasma source”, *Plasma Sources Science & Technology*, **13** (2), 2004, 231-236

2. Vipin K. Yadav & D. Bora (2004), “Observation of parametric decay spectrum in a cylindrical ECR plasma system”, *Physics of Plasmas*, **11**(7), 2004, 3409-3416

3. Vipin K. Yadav & D. Bora (2004), “Electron Cyclotron Resonance Heating in a short cylindrical plasma system”, *Pramana*, **63** (3), September 2004, 563-577

4. Vipin K. Yadav & D. Bora (2004), “Electron Bernstein wave generation in a linear plasma system”, *Physics of Plasmas*, **11** (10), October 2004, 4582-4588

5. D. Bora, ..., V. K. Yadav, ... (2006), “Cyclotron Resonance Heating systems for SST-1”, *Nuclear Fusion*, **46** (3), March 2006, S72-S84

6. Vipin K. Yadav, K. Sathyanarayana, D. Purohit & D. Bora (2007), “A tetrode based fast pulsed microwave source for ECR breakdown experiments”, *Review of Scientific Instruments*, **78** (2), February 2007, 023503

7. Vipin K. Yadav, K. Sathyanarayana & D. Bora (2008), “Electron cyclotron resonance breakdown studies in a linear plasma system”, *Pramana*, **70** (3), March 2008, 487-501

8. Vipin K. Yadav & D. Bora (2008), “Electric probes for the characterization of microwave-produced plasma”, *Physica Scripta*, **T131**, 2008, 014023:1-6

9. Sandip K. Chakrabarti, ... , V.K. Yadav & R. Sarkar (2009), “Fresnel zone plate telescopes for X-ray imaging I: experiments with quasi-parallel beam”, *Experimental Astronomy*, **24** (1-

3), May 2009, 109-126

10. Sourav Palit, ... , Vipin K. Yadav, V. Girish (2009), “Fresnel zone plate telescopes for X-ray imaging II: Numerical simulation with parallel and diverging beam”, *Experimental Astronomy*, **27** (1-2), December 2009, 77-93

11. A. Nandi, ... , Vipin K. Yadav, ... , (2011), “Instruments of RT-2 experiment onboard CORONAS-PHOTON and their test and evolution III: Coded Aperture Mask & Fresnel Zone Plate in RT-2/CZT payload”, *Experimental Astronomy*, **29** (1-2), February 2011, 55-84

12. S.K. Chakrabarti, ... , Vipin K. Yadav, ... (2012), “VLF signals in summer and winter in the Indian sub-continent using multi-station campaigns”, *Indian Journal of Physics*, **86** (5), May 2012, 323-334

13. Anil Bhardwaj, ... , Vipin K. Yadav, A.V. Aliyas (2015), “MENCA Experiment aboard India’s Mars Orbiter Mission”, *Current Science*, **109** (6), September 2015, 1106-1113

14. Anil Bhardwaj, ..., Vipin K. Yadav, and A.V. Aliyas (2015), “MENCA onboard the Indian Mars Orbiter Mission”, *Physics Education*, **31** (3), July – September 2015, 1-8

15. Anil Bhardwaj, ..., Vipin K. Yadav, ... (2016), “On the evening time exosphere of Mars: Result from MENCA aboard Mars Orbiter Mission”, *Geophysical Research Letters*, **43** (5), March 2016, 1862-1867

16. Vipin K. Yadav (2016), “Plasma Waves in the Sun”, *Universal Journal of Physics and Applications*, **10** (6), December 2016, 193-197

17. Anil Bhardwaj, ..., Vipin K. Yadav, ... (2017), “Observation of Suprathermal Argon in the Exosphere of Mars”, *Geophysical Research Letters*, **44** (5), March 2017; 2088–2095

18. P. Janardhan, ..., Vipin K. Yadav, ... (2017), “Probing the heliosphere using in-situ payloads on-board Aditya-L1” *Current Science*, **113** (4), August 2017, 620- 624

19. Vipin K. Yadav, Nandita Srivastava, S. S. Ghosh, P. T. Srikar and K. Subhalakshmi (2018), “Science objectives of the Magnetic Field Experiment onboard Aditya-L1 Spacecraft”, *Advances in Space Research*, **61** (2), 749-758

20. Vipin K. Yadav, (2018), “Alfven wave detection at first Lagrangian point with magnetic field measurements”, *IETE Technical Review*, 2018, doi:10.1080/02564602.2018.1541767

21. T. P. Das, ..., Vipin K. Yadav, ... , (2020), “Chandra’s Atmospheric Composition Explorer-2 (CHACE-2) aboard Chandrayaan-2 to study the lunar neutral exosphere”, *Current Science*, **118** (2), 202 – 209; doi:10.18520/cs/v118/i2/202-209

22. G. Manju, ..., Vipin K. Yadav, ... , (2020), “Lunar near surface plasma environment from Chandrayaan-2 Lander platform: RAMBHA-LP payload”, *Current Science*, **118** (3), 383 – 391; doi:10.18520/cs/v118/i3/383-391

23. Vipin K. Yadav, (2020), “Plasma Waves around Venus and Mars”, *IETE - Technical Review*, doi:10.1080/02564602.2020.1819889

Conference Proceedings (19)

1. D Bora, ... , Vipin K. Yadav , (2005), “*Test and Commissioning of 82.6 GHz ECRH system on SST-1*”, Journal of Physics: Conference Series, Vol. **25**, Page: 96-102 Third IAEA Technical Meeting on ECRH Physics and Technology in ITER, Como, Italy, 2-5 May 2005
2. V.K. Yadav, K. Sathyanarayana & D. Bora (2007), “*Microwave Produced Plasma Study in a Cylindrical System*”, International Conference on Research & Applications of Plasmas (PLASMA-2007); 4th German-Polish Conference on Plasma Diagnostics for Fusion & Applications; 6th French-Polish Seminar on Thermal Plasma in Space & Laboratory, Greifswald, Germany, October 16-19, 2007; AIP Conf. Proc., **993**, Page: 307 - 310
3. Vipin K. Yadav and D. Bora (2008), “*Electric probes for the characterization of microwave produced plasma*”, Physica Scripta, T131, 014023, Proceedings of XIIth Latin American Workshop on Plasma Physics, Caracas, Venezuela, September 17-22, 2007
4. Sourav Palit, ... , Vipin K. Yadav, Anuj Nandi (2008), “*Fresnel zone plates for Achromatic Imaging Survey of X-ray sources*”, Proceedings of 2nd Kolkata Conference on "Observational Evidence for Black Holes in the Universe" & Satellite Meeting on "Black Holes, Neutron Stars & Gamma Ray Bursts from February 10-17, 2008; Kolkata, India, Eds. S.K. Chakrabarti, A. Majumdar, AIP Conference Proceedings, **1053**, New York, Page: 391 - 394
5. S.K. Chakrabarti, ... , V.K. Yadav, A.R. Rao (2008), “*CSPOB - Continuous Spectrophotometry of Black Holes*”, Proceedings of 2nd Kolkata Conference on “Observational Evidence for Black Holes in Universe” & Satellite Meeting on "Black Holes, Neutron Stars & Gamma Ray Bursts from February 10-17, 2008; Kolkata, India, Eds. S.K. Chakrabarti, A. Majumdar, AIP Conference Proceedings, **1053**, New York, Page: 409 - 412
6. Vipin K. Yadav, S.K. Chakrabarti, A. Nandi, S. Palit (2009), “*X-ray experiments for Space applications in intermediate energy range*”, Proceedings of the “International Conference on Space Technology”; August 24-26, 2009; Thessaloniki, Greece, Eds. G Lampropoulos & M. Petrou. ISBN-9-781901-725384 (arXiv: 0912.5290)
7. S.K. Chakrabarti, ... , Vipin K. Yadav, D. Debnath (2009), “*Fresnel Zone Plate Telescopes as high resolution imaging devices*”, Proceedings of “International Conference on Space Technology”; August 24-26, 2009; Thessaloniki, Greece, Eds. G Lampropoulos & M. Petrou. ISBN-9-781901-725384 (arXiv: 0912.4127)
8. Anil Bhardwaj & CHACE-2 Team(*); The CHACE-2 Team: SV Mohankumar, P Sreelatha, P Pradeepkumar, B Sunder, TP Das, A. Nandi, Neha Naik, G Supriya, RS Thampi, G Padmanabhan, V.K. Yadav, MB Dhanya, N Raghu, AV Aliyas (2011), “*Study of Lunar Exosphere with the CHACE-2 Experiment*”, Proceedings of conference “Planetary Sciences & Exploration”; December 12-14, 2011; Physical Research Laboratory, Ahmedabad, India. Page: 09-10
9. Anil Bhardwaj, ... , Vipin K. Yadav, ... (2011), “*Exploration of Martian Upper Atmosphere-Exosphere*”, Proceedings of the conference “Planetary Sciences & Exploration”; December 12-14, 2011; Physical Research Laboratory, Ahmedabad, India. Page: 14-15
10. R. Satheesh Thampi, Abhinaw Alok, Anil Bhardwaj, Vipin K. Yadav and M.B. Dhanya

- (2011), “*Plasma Energy eXplorer (PLEX) - A novel electrostatic analyser for planetary plasma exploration*”, Proceedings of the conference “Planetary Sciences & Exploration”; December 12-14, 2011; Physical Research Laboratory, Ahmedabad, India. Page: 134-135
11. Vipin K. Yadav, and Anil Bhardwaj (2011), “*Plasma Waves in Planetary Ionosphere-Magnetosphere System*”, Proceedings of the conference “Planetary Sciences & Exploration”; December 12-14, 2011; Physical Research Laboratory, Ahmedabad, India. Page: 160 - 161.
 12. Vipin K. Yadav, R.S. Thampi and Anil Bhardwaj (2013), “*Plasma Waves in the Solar System*”, Proceedings of “27th National Symposium on Plasma Science & Technology”; December 10-13, 2012; Pondicherry University, Puducherry, India. SA02, Page: 454 - 458.
 13. Vipin K. Yadav, Anil Bhardwaj & R. Satheesh Thampi (2014), “*Plasma Waves in and around Sun*”, Proceedings of the “URSI Regional Conference on Radio Science”; January 2-5, 2014; Symbiosis Institute of Technology (SIT), Pune, India. Session 3H, Page: 97-98.
 14. Vipin K. Yadav, ..., Anil Bhardwaj (2015), “Performance evaluation of a newly designed Langmuir probe with a variable energy electron source”, Proceedings of the “National Symposium on Vacuum Technology and its Applications to Electron Beams (IVSNS-2015)”, November 18-20, 2015; TIFR, Mumbai. Page: 1-4
 15. R. Satheesh Thampi, ..., Vipin K. Yadav, ... (2015), “A novel technique for the characterization of low energy electron beam under high vacuum conditions”, Proceedings of the “National Symposium on Vacuum Technology and its Applications to Electron Beams (IVSNS-2015)”, November 18-20, 2015; TIFR, Mumbai. Page: 1-4
 16. Rasul Muthu A., Vipin K. Yadav and Shefin Shoukath (2016), “Solar plasma wave studies at L1 point with magnetic field measurements from magnetometers”, Proceedings of International Conference on Advanced Communication, Control & Computing Technologies (ICACCCT-2016) ; May 25–27, 2016; Syed Ammal Engineering College, Ramanathapuram, Tamil Nadu, India. Page: 298–302; ISBN: 978-1-4673-9545-8
 17. Vipin K. Yadav, “Solar Alfven wave detection at L-1 point with interplanetary magnetic field measurements”, Proceedings of National Conference on Plasma Physics and Non-linear Dynamics (NCPND-2017); March 23–24, 2017; Editors: Swarniv Chandra and Manjistha Dutta; JIS University, Kolkata, India. Chapter 11; Page: 102–109; ISBN: 978-93-5288-918-1
 18. Vipin K. Yadav, “Plasma Wave scenario in Comets”, Proceedings of URSI Asia-Pacific Radio Science Conference (URSI AP-RASC 2019), March 9-15, 2019; India Habitat Centre, Delhi; Page: 1-4; doi:10.23919/URSIAP-RASC.2019.8738542
 19. Vipin K. Yadav, “Plasma Waves in and around the Moon”, Proceedings of 4th URSI Regional Conference on Radio Science (URSI RCRS 2020), February 12-14, 2020; IIT (BHU), Varanasi, India; Page: 1-4; doi:10.23919/URSIRCRS49211.2020.9113523

डॉ विपिन कुमार यादव

वैज्ञानिक/अभियंता एसएफ

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शोध क्षेत्र: प्लाज़्मा भौतिकी, अन्तरिक्ष प्लाज़्मा भौतिकी, प्लाज़्मा तरंगें, प्लाज़्मा नैदानिकी, प्लाज़्मा तरंग यंत्रीकरण, अन्तरिक्ष-बाध्य कण अनुवेदक, अन्तरिक्ष में विद्युत एवं चुम्बकीय क्षेत्र का मापन।

शैक्षिक योग्यताएँ

क्रम संख्या	डिग्री	वर्ष	विवरण
1.	पीडीएफ	2006	प्लाज़्मा भौतिकी, प्लाज़्मा अनुसंधान संस्थान, गांधीनगर, गुजरात, भारत
2.	पीएचडी	2004	भौतिकी, शोध-ग्रंथ शीर्षक: ईसीआर द्वारा उत्पन्न प्लाज़्मा पर अध्ययन; गुजरात विश्वविद्यालय, अहमदाबाद, भारत
3.	स्नातकोत्तर (विज्ञान)	1995	भौतिकी, विशेषज्ञता: प्लाज़्मा भौतिकी, भौतिक शास्त्र विभाग, राजस्थान विश्वविद्यालय, जयपुर, भारत
4.	स्नातक (विज्ञान एवं शिक्षा)	1992	भौतिकी (आनर्स), क्षेत्रीय शिक्षा महाविद्यालय, महर्षि दयानन्द सरस्वती विश्वविद्यालय, अजमेर, भारत

वैज्ञानिक पृष्ठभूमि

पद	समयान्तराल	संस्थान
वैज्ञानिक/अभियंता एसएफ	जनवरी 2018 – वर्तमान	अन्तरिक्ष भौतिकी प्रयोगशाला, वीएसएससी, त्रिवेन्द्रम, भारत
वैज्ञानिक/अभियंता एसई	जुलाई 2012 – दिसम्बर 2017	अन्तरिक्ष भौतिकी प्रयोगशाला, वीएसएससी, त्रिवेन्द्रम, भारत
वैज्ञानिक/अभियंता एसडी	दिसम्बर 2010 – जून 2012	अन्तरिक्ष भौतिकी प्रयोगशाला, वीएसएससी, त्रिवेन्द्रम, भारत
वैज्ञानिक/अभियंता एसडी	अप्रैल 2006 – नवंबर 2010	भारतीय अन्तरिक्ष भौतिकी केंद्र, कोलकाता, भारत
पोस्ट-डॉक्टरल फ़ेलो	अक्तूबर 2004 – मार्च 2006	प्लाज़्मा अनुसंधान संस्थान, गांधीनगर, गुजरात, भारत
शोध छात्र	सितंबर 1997 – सितंबर 2004	प्लाज़्मा अनुसंधान संस्थान, गांधीनगर, गुजरात, भारत

पुरस्कार/सम्मान/पहचान/ उपलब्धि

जर्नल के लिए समीक्षाकार

01. *Acta Astronautica*; Elsevier, Amsterdam, The Netherlands.
02. *Advances in Space Research*; Elsevier, Amsterdam, The Netherlands.
03. *Indian Journal of Radio & Space Physics*, India.
04. *Reviews of Modern Plasma Physics*; Switzerland.
05. *IEEE Transactions on Plasma Science*; USA.
06. *Physics of Plasmas*; USA.

वैज्ञानिक सत्रों में निणायक

01. पोस्टर सत्र “अन्तरिक्ष प्लाज़्मा”; 27वां प्लाज़्मा विज्ञान एवं प्रौद्योगिकी सम्मेलन (प्लाज़्मा 2012); दिसंबर 10–13, 2012; पुद्दुचेरी, भारत
02. विद्यार्थी पत्र प्रतियोगिता; प्रथम URSI रेडियो विज्ञान पर क्षेत्रीय संगोष्ठी (RCRS-2014); जनवरी 02 – 05, 2014; पुणे, भारत
03. पोस्टर सत्र “प्लाज़्मा प्रक्रम”; 29वां प्लाज़्मा विज्ञान एवं प्रौद्योगिकी सम्मेलन (प्लाज़्मा 2014); दिसंबर 08–11, 2014; कोट्टायम, केरल, भारत
04. पोस्टर सत्र “नाभिकीय संलयन”; 29वां प्लाज़्मा विज्ञान एवं प्रौद्योगिकी सम्मेलन (प्लाज़्मा 2014); दिसंबर 08–11, 2014; कोट्टायम, केरल, भारत
05. विद्यार्थी पत्र प्रतियोगिता; तृतीय URSI रेडियो विज्ञान पर क्षेत्रीय संगोष्ठी (RCRS-2017); मार्च 01–04, 2012; तिरुपति, भारत
06. पोस्टर सत्र “अन्तरिक्ष प्लाज़्मा”; 32वां प्लाज़्मा विज्ञान एवं प्रौद्योगिकी सम्मेलन (प्लाज़्मा 2017); नवंबर 07–10, 2012; गांधीनगर, गुजरात, भारत

मुख्य अन्य उत्तरदायित्व

1. मुख्य अन्वेषक; आदित्य-एल1 सौर अभियान पर अवस्थित प्रवाह-द्वार चुम्बकमापी
2. मुख्य अन्वेषक; शुक्र कक्षीय अभियान पर अवस्थित वाइपर (शुक्र आयनमंडलीय प्लाज़्मा तरंग अनुवेदक)
3. परियोजना प्रबन्धक (यान्त्रिकी); आदित्य-एल1 सौर अभियान पर अवस्थित पापा प्रदायभार
4. परियोजना प्रबन्धक (प्रदायभार अभिलक्षणन); चंद्रयान-2 लैंडर विक्रम पर अवस्थित रंभा प्रदायभार की लेंगमियर सलाई
5. परियोजना प्रबन्धक (पदार्थ प्रबंधन एवं उप-तंत्र विकास); चंद्रयान-2 कक्षीय पर अवस्थित चेज़-2 प्रदायभार; मई 2017 से अब तक
6. परियोजना प्रबन्धक (प्रदायभार विकास); चंद्रयान-2 कक्षीय पर अवस्थित चेज़-2 प्रदायभार; अप्रैल 2014 से मई 2017 तक।

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02. उरसी व्यक्तिगत सदस्य (MURSI No. M1810501857), रेडियो विज्ञान का अंतर्राष्ट्रीय संघ, घेंट, बेल्जियम
03. COSPAR का सहयुक्त (अन्तरिक्ष अनुसंधान की समिति), पेरिस, फ्रांस
04. व्यक्तिगत सदस्य, IAU (अंतर्राष्ट्रीय खगोलीय संघ), पेरिस, फ्रांस
05. सदस्य, अंतर्राष्ट्रीय निम्न-ताप प्लाज़्मा समुदाय (ILTPC), संयुक्त राज्य अमरीका
06. नियमित सदस्य, (ID 589552), यूरोपीय भूविज्ञान संघ (EGU), जर्मनी

राष्ट्रीय

01. भारतीय प्लाज़्मा विज्ञान समाज (PSSI), गांधीनगर, गुजरात
02. भारतीय अन्तरिक्ष भौतिकी केंद्र (ICSP), कोलकाता
03. भारतीय खगोलीय समाज (ASI), हैदराबाद
04. भारतीय भौतिक समाज (IPS), कोलकाता
05. भारतीय भौतिकी संस्था (IPA), मुंबई
06. भारतीय निर्वात समाज (IVS), मुंबई
07. भारतीय चुम्बकत्व समाज Magnetics (MSI), हैदराबाद
08. भारतीय विज्ञान काँग्रेस संस्था (ISCA), कोलकाता
09. भारतीय परमाणु एवं अणु भौतिकी समाज (ISAMP), अहमदाबाद
10. अन्तरिक्ष यान्त्रिकी अभियन्ताओं का समाज (SSME), अहमदाबाद
11. आजीवन सदस्य (LM638), भारतीय विज्ञान एवं अभियांत्रिकी तंत्र समाज (ISSE), तिरुवनन्तपुरम
12. आजीवन सदस्य, भारतीय अन्तरिक्ष वैज्ञानिक संस्था (ISSA), तिरुवनन्तपुरम
13. आजीवन सदस्य (LM-11071), भारतीय नाभिकीय समाज (INS), मुंबई
14. आजीवन सदस्य (L-161), भारतीय ऊष्मभौतिक समाज (TPSI), जयपुर
15. आजीवन सदस्य (LM-500), भारतीय कण त्वरक समाज (ISPA), इंदौर
16. आजीवन सदस्य, भारतीय ऊर्जा विज्ञान समाज (ESSI), पुद्दुचेरी
17. सदस्य (M2019049), भारतीय रेडियो विज्ञान समाज (InRaSS), नई दिल्ली

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