

## PEER-Reviewed Publications in Scientific Journals/Conference Proceedings/Book Chapter

### 2014-2015 Reprints (177)

1. Constitutive Flow Behavior of IFAC-1 Austenitic Stainless Steel Depicting Strain Saturation over a Wide Range of Strain Rates and Temperatures  
DIPTI SAMANTARAY, ALPESH PATEL, UTPAL BORAH, S.K. ALBERT, A.K. BHADURI  
[Materials and Design, 56, 565-571, 2014](#)
2. Gravitational Waves from Known Pulsars: Results from the Initial Detector Era  
J. AASI, and A. KUMAR ET. AL  
[Astrophysical Journal, 785, 119, 2014](#)
3. Role of Secondary Emission on Discharge Dynamics in an Atmospheric Pressure Dielectric Barrier Discharge  
W. H. TAY, S. S. KAUSIK, S. L. YAP and C. S. WONG  
[Physics of Plasmas, 21, 044502, 2014](#)
4. Reduced Leakage Current of Multiferroic BiFeO<sub>3</sub> Ceramics with Microwave Synthesis  
V. RAGHAVENDRA REDDY, DEEPTI KOTHARI, SANJAY KUMAR UPADHYAY, AJAY GUPTA, N. and CHAUHAN, A.M. AWASTHI  
[Ceramics International, 40, 4247-4250, 2014](#)
5. Overall Performance of SST-1 Tokamak Vacuum System  
ZIAUDDIN KHAN, FIROZKHAN S. PATHAN, SIJU GEORGE, KALPESH R. DHANANI, PARAVASTU YUVAKIRAN, PRATIBHA SEMWAL, GATTU R. BABU and SUBRATA PRADHAN  
[IEEE Transaction on Plasma Science, 42, 1006-1011, 2014](#)
6. Chimera States: The Existence Criteria Revisited  
GAUTAM C. SETHIA and ABHIJIT SEN  
[Physical Review Letters, 112, 144101, 2014](#)
7. Effect of Polarization and Focusing on Laser Pulse Driven Auto-Resonant Particle Acceleration  
VIKRAM SAGAR, SUDIP SENGUPTA and PREDHIMAN KAW  
[Physics of Plasmas, 21, 043102, 2014](#)
8. Effect of Organic Ligands (l-Proline and l-Methionine) on Growth, Structural, Vibrational, Crystalline Perfection, SHG Efficiency, Microscopic and Optical Properties of KDP Single Crystals  
MOHD SHKIR, B. RISCOB, M. AJMAL KHAN, S. ALFAIFY, ERNESTO DIEGUEZ and G. BHAGAVANNARAYANA  
[Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 124, 571-578, 2014](#)
9. An analytic Approach to Modeling the Optical Response of Anisotropic Nanoparticle Arrays at Surfaces and Interfaces

L PERSECHINI, R VERRE, N MCALINDEN, J. J. WANG, M RANJAN, S FACSKO, I V SHVETS and J F MCGILP

[Journal of Physics: Condensed Matter, 26, 145302, 2014](#)

10. Improved Performance of Two-Way Power Divider using Dielectric Resonator  
AKHILESH JAIN, P. R. HANNURKAR, S. K. PATHAK, ANIMESH BISWAS and MRIGANK SRIVASTVA  
[Microwave and Optical Technology Letters, 56, 858-861, 2014](#)
11. Shock Waves in a Dusty Plasma having q-nonextensive Electron Velocity Distribution  
KAUSHIK ROY, PRASANTA CHATTERJEE, S. S. KAUSIK and C. S. WONG  
[Astrophysics and Space Science, 350, 599-605, 2014](#)
12. An Overview of Spacecraft Charging Research in India: Spacecraft Plasma Interaction Experiments-SPIX-II  
GUPTA, S.B., KALARIA, K.R., VAGHELA, N.P., MUKHERJEE, S., JOSHI, R.S., PUTHANVEETIL, S.E., SHANKARAN, M. and EKKUNDI, R.S.  
[IEEE Transactions on Plasma Science, 42, 1072-1077, 2014](#)
13. Effect of Cobalt Doping on the Structural, Microstructure and Microwave Dielectric Properties of MgTiO<sub>3</sub> Ceramics Prepared by Semi Alkoxide Precursor Method  
THATIKONDA SANTHOSH KUMAR, PALLABI GOGOI, ALAGARSAMY PERUMAL, PRAMOD SHARMA and DOBBIDI PAMU  
[Journal of the American Ceramic Society, 97, 1054-1059, 2014](#)
14. Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors  
J. AASI et al. (LIGO Scientific Collaboration and Virgo Collaboration)  
[Physical Review Letters, 112, 131101, April 2014](#)
15. Properties of Gravitationally Equilibrated Yukawa Systems-A Molecular Dynamics Study  
HARISH CHARAN, RAJARAMAN GANESH and ASHWIN JOY  
[Plasmas, 21, 043702 Physics of, 2014](#)
16. Plasma Anusandhan Sansthan-Ek Parichay (In Hindi)  
DHIRAJ BORA  
Aavishkar, 44, 3, 2014
17. Plasma-Paryavaran Sanrakshan me Kuch Upyog (In Hindi)  
SURYAKANT B. GUPTA  
Aavishkar, 44, 6, 2014
18. Bharat me Sanlayan Anusandhan Karyakram (In Hindi)  
SHISHIR DESHPANDE and P.K. KAW  
Aavishkar, 44, 13, 2014
19. Plasma par Kuch Maulik Prayog (In Hindi)  
PRABAL KUMAR CHATTOPADHYAY, A. V. RAVIKUMAR, RAMASUBRAMANIAN, R.

GANESH, B. GANGULI and SHANTANU KUMAR KARKARI  
Aavishkar, 44, 19, 2014

20. Tokamak-Nabhikiya Sanlayan Urja ki Sashakt Machine (In Hindi)  
MOHAMMAD SHOAIK KHAN  
Aavishkar, 44, 24, 2014
21. Sanlayan Plasma me Prakshobh ke Prabhav (In Hindi)  
AMITA DAS and P.K. KAW  
Aavishkar, 44, 28, 2014
22. Aditya-Swadeshi Tokamak (In Hindi)  
RATNESHWAR JHA and KUMUDINI TAHILIYANI  
Aavishkar, 44, 32, 2014
23. Sanlayan Neutroniki-Neutron Abhigaman Ganana (In Hindi)  
TEJEN KUMAR BASU  
Aavishkar, 44, 39, 2014
24. Application of a Hough Search for Continuous Gravitational Waves on Data from the Fifth LIGO Science Run  
J. AASI, AND A. KUMAR et al  
[Classical and Quantum Gravity, 31, 085014, 2014](#)
25. Kinetics of Wet Sodium Vapor Complex Plasma  
S. K. MISHRA and M. S. SODHA  
[Physics of Plasmas, 21, 043703, 2014](#)
26. Design and Development of Ultra-Wideband 3 dB Hybrid Coupler for Ion Cyclotron Resonance Frequency Heating in Tokamak  
RANA PRATAP YADAV, SUNIL KUMAR and S. V. KULKARNI  
[Review of Scientific Instruments, 85, 044706, 2014](#)
27. Effect of Flux Addition on Mechanical and Microwave Dielectric Properties of Barium Zinc Tantalate Ceramics  
SWATHI MANIVANNAN, V. S. SURYA CHANDRA, P. K. SHARMA, K. C. JAMES RAJU and DIBAKAR DAS  
[Transactions of the Indian Ceramic Society, 73, 87-89, 2014](#)
28. Characterization and Calibration of 8-Channel E-Band Heterodyne Radiometer System for SST-1 Tokamak  
VARSHA SIJU, DHARMENDRA KUMAR, PRAVEENA SHUKLA and S. K. PATHAK  
[Review of Scientific Instruments, 85, 053503, 2014](#)
29. Argon-Oxygen dc Magnetron Discharge Plasma Probed with Ion Acoustic Waves  
PARTHA SAIKIA, BIPUL KUMAR SAIKIA, KALYAN SINDHU GOSWAMI and ARINDAM PHUKAN  
[Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 32, 031303, 2014](#)

30. Spatial Analysis of Impurities on the Surface of Flange and Optical Window of the Tokamak using Laser Induced Breakdown Spectroscopy  
GULAB SINGH MAURYA, ARADHANA JYOTSANA, ASHOK KUMAR PATHAK, AJAI KUMAR, and AWADHESH K. RAI  
[Optics and Lasers in Engineering, 56, 13-18, 2014](#)
31. Theoretical Study of Head-On Collision of Dust Acoustic Solitary Waves in a Strongly Coupled Complex Plasma  
S. JAISWAL, P. BANDYOPADHYAY and A. SEN  
[Physics of Plasmas, 21, 5, 053701, 2014](#)
32. Plasma Heating by Electric Field Compression  
K. AVINASH and P.K. KAW  
[Physical Review Letters, 112, 185002, 2014](#)
33. Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005-ating by electric field compression2010  
J. AASI, and A. KUMAR et al. (The LIGO Scientific Collaboration and the Virgo Collaboration)  
[Physical Review D, 89, 102006, 2014](#)
34. Design and implementation of quench detection instrumentation for TF magnet system of SST-1  
Y. KHRISTI, A.N. SHARMA, K. DOSHI, M. BANAUDHA, U. PRASAD, P. VARMORA, D. PATEL, and S. PRADHAN  
[Fusion Engineering and Design, 89, 623-627, 2014](#)
35. Design and implementation of data acquisition system for magnets of SST-1  
K. DOSHI, S. PRADHAN, H. MASAND, Y. KHRISTI, J. DHONGDE, A. SHARMA, B. PARGHI, P. VARMORA, U. PRASAD, and D. PATEL  
[Fusion Engineering and Design, 89, 679-683, 2014](#)
36. Embedded Linux platform for data acquisition systems  
JIGNESHKUMAR J. PATEL, NAGARAJ REDDY, PRAVEENA KUMARI, RACHANA RAJPAL, HARSHAD PUJARA, R. JHA and PRAVEEN KALAPPURAKKAL  
[Fusion Engineering and Design, 89, 684-688, 2014](#)
37. Kinetics of Dust Particles around the Scrape off Layer in Fusion Devices  
S K MISHRA, SHIKHA MISRA and M S SODHA  
[Plasma Physics and Controlled Fusion, 56, 055005, 2014](#)
38. Feasibility of ECE Measurements using Hilbert-Transform Spectral Analysis  
YURIY DIVIN and HITESH KUMAR B. PANDYA  
[Fusion Science and Technology, 65, 399-405, 2014](#)
39. Influence of Prior Fatigue Cycling on Creep Behavior of Reduced Activation Ferritic-Martensitic Steel  
ARITRA SARKAR, V. D. VIJAYANAND, P. PARAMESWARAN, VANI SHANKAR, R.

SANDHYA, K. LAHA, M. D. MATHEW, T. JAYAKUMAR, and E. RAJENDRA KUMAR  
[Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 45, 3023-3035, 2014](#)

40. A Guillemin Type E pulse Forming Network as the Driver for a Pulsed, High Density Plasma Source  
PRIYAVANDNA J. RATHOD, V. P. ANITHA, Z. H. SHOLAPURWALA and Y. C. SAXENA  
[Review of Scientific Instruments, 85, 063503, 2014](#)
41. Noise Mitigation in Thermocouple Signal Conditioning System for Neutral Beam Calorimeter for NBI SST-1  
BANSAL, L.K., PATEL, P.J. ; QURESHI, K. ; PATEL, V.B. ; GUPTA, L.N. ; THAKKAR, D.P. ; SUMOD, C.B. ; VADHER, V. ; PARMAR, S.L. ; BHARATHI, P. ; VATTIPALLE, P. ; and BARUAH, U.K.  
[IEEE Transactions on Plasma Science, 42, 6819055, 1780-1784, 2014](#)
42. Slow Excited State Phototautomerization in 3-Hydroxyisoquinoline  
NEERAJ KUMAR JOSHI, PRIYANKA ARORA, SANJAY PANTA and HEM CHANDRA JOSHI  
[Photochemical and Photobiological Sciences, 13, 929-938, 2014](#)
43. First Engineering Validation Results of SST-1 TF Magnet System  
SUBRATA PRADHAN, K. DOSHI, A. SHARMA, U. PRASAD, Y. KHRISTI, V. TANNA, ZIAUDDIN KHAN, A. VARADHARAJALU, D. SHARMA, M. VORA, A. SINGH, B. PARGHUI, M. BANAUDHA, J. DHONGDE, P. VARMORA and D. PATEL  
[IEEE Transaction on Applied Superconductivity, 24, 4202206, 2014](#)
44. Performance of Joints in SST-1 Magnets  
UPENDRA PRASAD, AASHOO SHARMA, KALPESH DOSHI, YOHAN CHRISTIAN, DIPAK PATEL, PANKAJ VARMORA, ZIAUDDIN KHAN, VIPUL TANNA, and SUBRATA PRADHAN  
[IEEE Transaction on Applied Superconductivity, 24, 4801704, 2014](#)
45. The Removal of Impurities from Gray Cotton Fabric by Atmospheric Pressure Plasma Treatment and its Characterization using ATR-FTIR Spectroscopy  
HEMEN DAVE, LALITA LEDWANI, NISHA CHANDWANI, NARENDRASINH CHAUHAN, and S.K. NEMA  
[The Journal of the Textile Institute, 105, 586-596, 2014](#)
46. The NINJA-2 project: Detecting and Characterizing Gravitational Waveforms Modelled using Numerical Binary Black Hole Simulations  
J. AASI, and A. KUMAR ET. AL  
[Classical and Quantum Gravity, 31, 115004, 2014](#)
47. Search for Gravitational Waves Associated with  $\gamma$ -ray Bursts Detected by the Interplanetary Network  
J. AASI, and A. KUMAR et al. (LIGO Scientific Collaboration, Virgo Collaboration, and IPN

Collaboration)  
[Physical Review Letters, 113, 011102, 2014](#)

48. Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run  
J. AASI, and A. KUMAR et al. (LIGO Scientific Collaboration and Virgo Collaboration)  
[Physical Review D, 89, 122003, 2014](#)
49. Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO 600, LIGO, and Virgo detectors  
J. AASI, and A. KUMAR et al. (LIGO Scientific Collaboration and Virgo Collaboration)  
[Physical Review D, 89, 122004, 2014](#)
50. Study on Neutron Emission from 2.2 kJ Plasma Focus Device  
N. TALUKDAR, N. K. NEOG and T. K. BORTHAKUR  
[Physics of Plasmas, 21, 062709, 2014](#)
51. Suppression of Rayleigh Taylor Instability in Strongly Coupled Plasmas  
AMITA DAS and PREDHIMAN KAW  
[Physics of Plasmas, 21, 062102, 2014](#)
52. A Semi-Analytic Power Balance Model for Low (L) To High (H) Mode Transition Power Threshold  
R. SINGH, HOGUN JHANG, P. K. KAW, P. H. DIAMOND, H. NORDMAN, C. BOURDELLE and A. LOARTE  
[Physics of Plasmas, 21, 062503, 2014](#)
53. Recent Improvements in the EMC3-Eirene Code  
Y. FENG, H. FRERICHS, M. KOBAYASHI, A. BADER, F. EFFENBERG, D. HARTING, H. HOELBE, J. HUANG, G. KAWAMURA, J. D. LORE, T. LUNT, D. REITER, O. SCHMITZ, and D. SHARMA  
[Contributions to Plasma Physics, 54, 426-431, 2014](#)
54. Dynamics of Multiple Double Layers in High Pressure Glow Discharge in a Simple Torus  
MANASH KUMAR PAUL, P. K. SHARMA, A. THAKUR, S. V. KULKARNI, and D. BORA  
[Physics of Plasmas, 21, 062112, 2014](#)
55. Transport Driven Plasma Flows in the Scrape-Off Layer of ADITYA Tokamak in Different Orientations of Magnetic Field  
DEEPAK SANGWAN, RATNESHWAR JHA, JANA BROTKANKOVA, and M. V. GOPALKRISHNA  
[Physics of Plasmas, 21, 062512, 2014](#)
56. Optical Time of Flight Studies of Lithium Plasma in Double Pulse Laser Ablation: Evidence of Inverse Bremsstrahlung Absorption  
V. SIVAKUMARAN, H. C. JOSHI, R. K. SINGH, and AJAI KUMAR  
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57. Thermal Cycling Behavior of Alumina-Graphite Brazed Joints in Electron Tube Applications  
N. DANDAPAT, S. GHOSH, KALYAN SUNDAR PAL, S. DATTA, and B.K. GUHA  
[Transactions of Nonferrous Metals Society of China, 24, 1666-1673, 2014](#)
58. Al<sub>2</sub>O<sub>3</sub> Films Grown by Glow Discharge Plasma Aluminising  
N. I. JAMNAPARA, V. NAYAK, D. U. AVTANI, N. L. CHAUHAN, D. PANDA, S. B. GUPTA, K. KALARIA, N. VAGHELA, S. MUKHERJEE, and A. S. KHANNA  
[Surface Engineering, 30, 467-474, 2014](#)
59. Analysis of Deposited Impurity Material on the Surface of the Optical Window of the Tokamak using LIBS  
GULAB SINGH MAURYA, ARADHANA JYOTSANA, ROHIT KUMAR, AJAI KUMAR and A K RAI  
[Physica Scripta, 89, 075601, 2014](#)
60. Numerical Study of Transition to Supersonic Flows in the Edge Plasma  
RAJIV GOSWAMI, JEAN-FRANCOIS ARTAUD, FREDERIC IMBEAUX, and PREDHIMAN KAW  
[Physics of Plasmas, 21, 072510, 2014](#)
61. Visco-elastic Fluid Simulations of Coherent Structures in Strongly Coupled Dusty Plasma Medium  
VIKRAM SINGH DHARODI, SANAT KUMAR TIWARI, and AMITA DAS  
[Physics of Plasmas, 21, 073705, 2014](#)
62. Kolmogorov Flow in Two Dimensional Strongly Coupled Dusty Plasma  
AKANKSHA GUPTA, R. GANESH, and ASHWIN JOY  
[Physics of Plasmas, 21, 073707, 2014](#)
63. Statistical Charge Distribution over Dust Particles in a non-Maxwellian Lorentzian Plasma  
S. K. MISHRA, and SHIKHA MISRA  
[Physics of Plasmas, 21, 073706, 2014](#)
64. Improvement of Charged Particles Transport across a Transverse Magnetic Filter Field by Electrostatic Trapping of Magnetized Electrons  
B. K. DAS, P. HAZARIKA, M. CHAKRABORTY, and M. BANDYOPADHYAY  
[Physics of Plasmas, 21, 072118, 2014](#)
65. Dynamics of a Confined Dusty Fluid in a Sheared Ion Flow  
MODHUCHANDRA LAISHRAM, DEVENDRA SHARMA, and PREDHIMAN K. KAW  
[Physics of Plasmas, 21, 073703, 2014](#)
66. Observation of Transient Electric Fields in Particle-In-Cell Simulation of Capacitively Coupled Discharges  
S. SHARMA, S. K. MISHRA and PREDHIMAN K. KAW  
[Physics of Plasmas, 21, 073511, 2014](#)

67. Preliminary Corrosion Studies of P-91 in Flowing Lead-Lithium with and Without Magnetic Field for Indian Lead-Lithium Ceramic Breeder Test Blanket Module  
ATCHUTUNI SARADA SREE, KAMBLE TANAJI, CHAKRABORTY POULAMI, R.K. FOTEDAR, E. RAJENDRA KUMAR, A.K. SURI, E. PLATACIS, A. ZIKS, I. BUCENIEKS, A. POZNJAKS, and A. SHISKO  
[Nuclear Fusion, 54, 083029, 2014](#)
68. Bacterial Cells Enhance Laser Driven Ion Acceleration  
MALAY DALUI, M. KUNDU, T. MADHU TRIVIKRAM, R. RAJEEV, KRISHANU RAY and M. KRISHNAMURTHY  
[Scientific Reports, 4, 6002, 2014](#)
69. Implementation of an F-Statistic All-Sky Search for Continuous Gravitational Waves in Virgo VSR1 Data  
J. AASI, and A. KUMAR ET. AL  
[Classical and Quantum Gravity, 31, 165014, 2014](#)
70. Inter-code comparison benchmark between DINA and TSC for ITER disruption modelling  
S. MIYAMOTO, A. ISAYAMA, I. BANDYOPADHYAY, S.C. JARDIN, R.R. KHAYRUTDINOV, V.E. LUKASH, Y. KUSAMA and M. SUGIHARA  
[Nuclear Fusion, 54, 083002, 2014](#)
71. Global Gyrokinetic Stability of Collisionless Microtearing Modes in Large Aspect Ratio Tokamaks  
ADITYA K. SWAMY, R. GANESH, J. CHOWDHURY, S. BRUNNER, J. VACLAVIK and L. VILLARD  
[Physics of Plasmas, 21, 082513, 2014](#)
72. Propagation Dynamics of Laterally Colliding Plasma Plumes in Laser-Blow-Off of Thin Film  
BHUPESH KUMAR, R. K. SINGH, SUDIP SENGUPTA, P. K. KAW and AJAI KUMAR  
[Physics of Plasmas, 21, 083510, 2014](#)
73. Exact Propagating Nonlinear Singular Disturbances in Strongly Coupled Dusty Plasmas  
AMITA DAS, SANAT KUMAR TIWARI, PREDHIMAN KAW, and ABHIJIT SEN  
[Physics of Plasmas, 21, 083701, 2014](#)
74. Sheath Formation under Collisional Conditions in Presence of Dust  
R. MOULICK and K. S. GOSWAMI  
[Physics of Plasmas, 21, 083702, 2014](#)
75. Studies on Hydrogen Plasma and Dust Charging in Low-Pressure Filament Discharge  
B. KAKATI, D. KALITA, S. S. KAUSIK, M. BANDYOPADHYAY, and B. K. SAIKIA  
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76. Potential Formation in a Collisionless Plasma Produced in an Open Magnetic Field in Presence of Volume Negative Ion Source  
ANANYA PHUKAN, K. S. GOSWAMI, and P. J. BHUYAN  
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77. A Novel Approach for Mitigating Disruptions using Biased Electrode in Aditya Tokamak  
PRAVESH DHYANI, J. GHOSH, P.K. CHATTOPADHYAY, R.L. TANNA, D. RAJU, S. JOISA, ASIM KUMAR CHATTOPADHYAY, DEBJYOTI BASU, N. RAMAIYA, S. KUMAR, K. SATHYANARAYANA, S.B. BHATT, P.K. ATREY, C.N. GUPTA, C.V.S. RAO, RATNESHWAR JHA, Y.C. SAXENA and R. PAL  
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78. Damage Studies on Tungsten Due to Helium Ion Irradiation  
N.J. DUTTA, N. BUZARBARUAH, and S.R. MOHANTY  
[Journal of Nuclear Materials, 452, 51-56, 2014](#)
79. Thermal Behavior of SST-1 Vacuum Vessel and Plasma Facing Components during Baking  
ZIAUDDIN KHAN, YUVAKIRAN PARAVASTU and SUBRATA PRADHAN  
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80. Temperature Instability in High-Tc Superconducting Wire Exposed to Thermal Disturbance  
ZIAUDDIN KHANA, SUBRATA PRADHAN and IRFAN AHMED  
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81. Magnetic properties of Co doped MgTiO<sub>3</sub> ceramics  
SANTHOSH KUMAR THATIKONDA, PALLABI GOGOI, BHAGABAN KISAN, ALAGARSAMY PERUMAL, PRAMOD SHARMA, and PAMU DOBBIDI  
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82. A Signature for Turbulence Driven Magnetic Islands  
O. AGULLO, M. MURAGLIA, A. POYE, S. BENKADDA, M. YAGI, X. GARBET and A. SEN  
[Physics of Plasmas, 21, 092303, 2014](#)
83. Lunar Photoelectron Sheath and Levitation of Dust  
M. S. SODHA and S. K. MISHRA  
[Physics of Plasmas, 21, 093704, 2014](#)
84. High Power CW Testing of 3.7-GHz Klystron for SST1 LHCD System  
PROMOD KUMAR SHARMA, KIRAN K. AMBULKAR, SHEFALI DALAKOTI, NATARAJABOOBATHI RAJANBABU, PRAMOD R. PARMAR, CHETAN G. VIRANI, and ARVINKUMAR L. THAKUR  
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85. Opacity and Atomic Analysis of Double Pulse Laser Ablated Li Plasma  
V SIVAKUMARAN, H C JOSHI and AJAI KUMAR  
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86. First All-Sky Search for Continuous Gravitational Waves from Unknown Sources in Binary Systems  
J. AASI, and A. KUMAR ET AL. (LIGO SCIENTIFIC COLLABORATION AND VIRGO COLLABORATION)  
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87. Cordierite Based Glass-Ceramic Glazed Floor Tiles by Microwave Processing  
SUMANA GHOSH, KALYAN SUNDAR PAL, ASHIS KUMAR MANDAL, NILORMI BISWAS, MANJIMA BHATTACHARYA, and PAYEL BANDYOPADHYAY  
[Materials Characterization, 95, 192-200, 2014](#)
88. Surface Activation of Polyester Fabric using Ammonia Dielectric Barrier Discharge and Improvement in Colour Depth  
HEMEN DAVE, LALITA LEDWANI, NISHA CHANDWANI, BHAKTI DESAI, and S K NEMA  
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89. Design, Development and Fabrication of Indigenous 30 kA NbTi CICC for Fusion Relevant Superconducting Magnet  
MAHESH GHATE, PIYUSH RAJ, ARUN SINGH, SUBRATA PRADHAN, M.M. HUSSAIN, and K.K. ABDULLA  
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90. Double Imaging with an Intensified Visible Fast Camera to Visualize the Fine Structure of Turbulent Coherent Plasma Structures (Blobs) in TJ-II  
E DE LA CAL, P SEMWAL, A MARTIN AGUILERA, B VAN MILLIGEN, J L DE PABLOS, Z KHAN and C HIDALGO  
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91. On the Existence of Vapor-Liquid Phase Transition in Dusty Plasmas  
M. KUNDU, K. AVINASH, A. SEN and R. GANESH  
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92. Time-Delay Effects on the Aging Transition in a Population of Coupled Oscillators  
BHUMIKA THAKUR, DEVENDRA SHARMA, and ABHIJIT SEN  
[Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 90, 042904, 2014](#)
93. Coherent Structures in Ion Temperature Gradient Turbulence-Zonal Flow  
RAMESWAR SINGH, R. SINGH, P. KAW, O. D. GURCAN and P. H. DIAMOND  
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94. Dynamics of Compressional Mach Cones in a Strongly Coupled Complex Plasma  
P. BANDYOPADHYAY, R. DEY, SANGEETA KADYAN and ABHIJIT SEN  
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95. A Set-Up for a Biased Electrode Experiment in ADITYA Tokamak  
PRAVESH DHYANI, JOYDEEP GHOSH, K SATHYANARAYANA, V E PRAVEENLAL, PRAMILA GAUTAM, MINSHA SHAH, R L TANNA, PINTU KUMAR, C CHAVDA, N C PATEL, V PANCHAL, C N GUPTA, K A JADEJA, S B BHATT, S KUMAR, D RAJU, P K ATREY, S JOISA, P K CHATTOPADHYAY and Y C SAXENA  
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### **Conference Papers 2014-2015 (17)**

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