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

2017-2018 (187 Reprints)

1. Design of a Helicon Plasma Source for Ion-Ion Plasma Production
   N. SHARMA, M. CHAKRABORTY, N.K. NEOG, M. BANDYOPADHYAY
   Fusion Engineering and Design, 117, 30, 2017

2. Search for Continuous Gravitational Waves from Neutron Stars in Globular Cluster NGC 6544
   B.P. ABBOTT, A. DASGUPTA, G. GAUR, M. K. GUPTA, Z. KHAN, R. KUMAR, A. K. SRIVASTAVA, S. SUNIL, et al. (LIGO Scientific Collaboration and Virgo Collaboration)
   Physical Review D, 95, 082005, 2017

3. First Search for Gravitational Waves from Known Pulsars with Advanced LIGO
   B. P. ABBOTT, A. DASGUPTA, M. K. GUPTA, Z. KHAN, R. KUMAR, A. K. SRIVASTAVA, S. SUNIL (LIGO Scientific Collaboration and Virgo Collaboration)
   Astrophysical Journal, 839, 1, April 2017

4. Nonlinear Dynamics of Turbulence Driven Magnetic Islands. I. Theoretical Aspects
   O. AGULLO, M. MURAGLIA, S. BENKADDA, A. POYE, N. DUBUIT, X. GARBET, and A. SEN
   Physics of Plasmas, 24, 42308, 2017

5. Nonlinear Dynamics of Turbulence Driven Magnetic Islands. II. Numerical Simulations
   O. AGULLO, M. MURAGLIA, S. BENKADDA, A. POYE, N. DUBUIT, X. GARBET, and A. SEN
   Physics of Plasmas, 24, 42309, 2017

6. Effects of Waveform Model Systematics on the Interpretation of GW150914
   B.P. ABBOTT, A. DASGUPTA, M.K. GUPTA, Z. KHAN, R. KUMAR, A.K. SRIVASTAVA, S. SUNIL et al. (LIGO Scientific Collaboration, Virgo Collaboration)
   Classical and Quantum Gravity, 34, 104002, 2017

7. Effect of Cold Plasma Treatment on Physiological Quality of Okra Seed
   RAVINDER SEHRAWAT, ASHOK K. THAKUR, AMIT VIKRAM, A. VAID, R. RANE
   Journal of Hill Agriculture, 8, 66, 2017

8. Plasma Wakefield Excitation in a Cold Magnetized Plasma for Particle Acceleration
   MITHUN KARMAKAR, NIKHIL CHAKRABARTI and SUDIP SENGUPTA
   Physics of Plasmas, 24, 052111, 2017

9. Correlation of Structural and Optical Properties of PVD Grown Amorphous Carbon Thin Films
   INFANT SOLOMON, MUKUL BHATNAGAR, KRISHNANAND SHUKLA, BORNALI SARMA, MUKESH RANJAN, ARUN SARMA
   Diamond & Related Materials, 75, 69, 2017

10. Virtual Reality Applications in Remote Handling Development for Tokamaks in India
    PRAMIT DUTTA, NAVEEN RASTOGI, KRISHAN KUMAR GOTEWAL
    Fusion Engineering and Design, 118, 73, 2017

11. Nonlinear Simulation of ELM Dynamics in the Presence of Resonant Magnetic Perturbations
    D. CHANDRA, A. THYAGARAJA, A. SEN and P. KAW
    Nuclear Fusion, 57, 076001, 2017(IPR/RR-846/2016)

12. Energy Exchange Dynamics Across L-H Transitions in NSTX
    A. DIALLO, S. BANERJEE, S.J. ZWEBEN and T. STOLTZFUS-DUECK
    Nuclear Fusion, 57, 066050, 2017

13. Studies on Radial and Poloidal Particle Transport at the Edge of SST-1 Tokamak
    B. KAKATI, S. PRADHAN, J. DHONGDE, P. SEMWAL and SST-1 TEAM
    Physics of Plasmas, 24, 052306, 2017

14. Amplification of a Turbulence Driven Seed Magnetic Island by Bootstrap Current
    M. MURAGLIA, O. AGULLO, A. POYE, S. BENKADDA, N. DUBUIT, X. GARBET and A. SEN
    Nuclear Fusion, 57, 072010, 2017

15. Time-Resolved Whole Field Investigation of Plasma Plume-Induced Shock Wave in Liquid Media of Different Densities
    KAUSHIK CHOUDHURY, R. K. SINGH, SURYA NARAYAN, ATUL SRIVASTAVA and AJAI KUMAR
    Applied Physics B: Lasers and Optics, 123, 163, 2017

16. Numerical Simulation of Multi-Pass GTA Welding of Grade 91 Steel
    M. ZUBAIRUDDIN, S.K. ALBERT, M. VASUDEVAN, S. MAHADEVAN, V. CHAUDHARI and V.K. SURI
    Journal of Manufacturing Processes, 27, 87, 2017

17. High-Temperature Tribological Studies of Plasma-Nitrided Tool Steels
    ASHISH KUMAR, MANPREET KAUR, SUNPREET SINGH, ALPHONSA JOSEPH, GHANSHYAM JHALA and SANJEEV BHANDARI

Surface Engineering, 34, 620, 2017

18. GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2
    B.P. ABBOTT, A. DASGUPTA, M.K. GUPTA, Z. KHAN, R. KUMAR, A.K. SRIVASTAVA, S. SUNIL, et al. (LIGO Scientific and Virgo Collaboration)
    Physical Review Letters, 118, 221101, 2017

19. Design of the 3.7 Ghz, 500 Kw CW Circulator for the LHCD System of the SST-1 Tokamak
    HARISH V. DIXIT, AVIRAJ R. JADHAV, YOGESH M. JAIN, ALICE N. CHEERAN, VIKAS GUPTA and P.K. SHARMA
    Fusion Engineering and Design, 119, 51, 2017

20. SPINS-IND: Pellet Injector for Fuelling of Magnetically Confined Fusion Systems
    R. GANGRADEY, J. MISHRA, S. MUKHERJEE, P. PANCHAL, P. NAYAK, J. AGARWAL
    and Y.C. SAXENA
    Review of Scientific Instruments, 88, 063503, 2017

21. Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B
    B.P. ABBOTT, A. DASGUPTA, M.K. GUPTA, Z. KHAN, R. KUMAR, A.K. SRIVASTAVA, S. SUNIL, et al (LIGO Scientific Collaboration, Virgo Collaboration)
    The Astrophysical Journal, 841, 89, 2017

22. Search for Gravitational Waves from Scorpius X-1 in the First Advanced LIGO Observing Run with a Hidden Markov Model
    B.P. ABBOTT, A. DASGUPTA, M.K. GUPTA, Z. KHAN, R. KUMAR, A.K. SRIVASTAVA, S. SUNIL, et al (LIGO Scientific Collaboration, Virgo Collaboration)
    Physical Review D, 95, 122003, 2017

23. Magnetic Turbulence in a Table-Top Laser-Plasma Relevant to Astrophysical Scenarios
    GOURAB CHATTERJEE, KEVIN M. SCHOEFFLER, PRASHANT KUMAR SINGH, AMITAVA ADAK, AMIT D. LAD, SUDIP SENGUPTA, PREDHIMAN KAW,
    LUIS O. SILVA, AMITA DAS and G. RAVINDRA KUMAR
    Nature Communications, 8, 15970, 2017

24. Nonlinear Laser–Plasma Interactions (Chandrasekhar Lecture)
    P.K. KAW
    Reviews of Modern Plasma Physics, 1, 1, 2017

25. Investigation of Neutral Particle Dynamics in Aditya Tokamak Plasma with DEGAS2 Code
    RITU DEY, JOYDEEP GHOSH, M.B. CHOWDHURI, R. MANCHANDA, S. BANERJEE, N. RAMAIYA, DEEPTI SHARMA, R. SRINIVASAN, D.P. STOTLER and ADITYA TEAM
    Nuclear Fusion, 57, 086003, 2017

26. Overview of Recent Experimental Results from the Aditya Tokamak
    R.L. TANNA, J. GHOSH, P.K. CHATTOPADHYAY, HARSHITA RAJ, SHARVIL PATEL, P. DHYANI, C.N. GUPTA, K.A. JADEJA, K.M. PATEL, S.B. BHATT, V.K. PANCHAL, N.C. PATEL, CHHAYA CHAVDA, E.V. PRAVEENLAL, K.S. SHAH, M.N. MAKAWANA, S.K. JHA, M.V. GOPALKRISHANA, K. TAHILIANI, DEEPAK SANGWAN, D. RAJU, UMESH NAGORA, S.K. PATHAK, P.K. ATREY, S. PUROHIT, J. RAVAL, Y.S. JOISA, C.V.S. RAO, M.B. CHOWDHURI, S. BANERJEE, N. RAMAIYA, R. MANCHANDA, J. THOMAS, AJAI KUMAR, KUMAR AJAY, P.K. SHARMA, S.V. KULKARNI, K. SATHYANARAYANA, B.K. SHUKLA, AMITA DAS, R. JHA, Y.C. SAXENA, A. SEN, P.K. KAW, D. BORA and THE ADITYA TEAM
    Nuclear Fusion, 57, 102008, 2017

27. Plasma Fireball: A Unique Tool to Fabricate Patterned Nanodots
    S. CHAUHAN, T. BARMAN, M. BHATNAGAR, M. RANJAN and S. MUKHERJEE
    Review of Scientific Instruments, 88, 063507, 2017

28. Development of Data Acquisition and Control System for Long Pulse Operations of Indian Test Facility of ITER DNB
    HIMANSHU TYAGI, RATNAKAR YADAV, KARTIK PATEL, MAINAK BANDYOPADHYAY, CHANDRAMOULI ROTTI, DASS SUDHIR, AGRAJIT GAHLAUT,
    KAUSHAL PANDYA, ARUN CHAKRABORTY and TEJ TRIVEDI
    IEEE Transactions on Nuclear Science, 64, 1426, 2017

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    F LOCKWOOD ESTRIN, S.K KARKARI and J.W BRADLEY
    Journal of Physics D: Applied Physics, 50, 295201, 2017

30. Gated Integrator PXI-DAQ System for Thomson Scattering Diagnostics
    KIRAN PATEL, VISHAL PILLAI, NEHA SINGH, JINTO THOMAS and AJAI KUMAR
    Fusion Engineering and Design, 119, 17, 2017

31. Study on Metal Decorated Oxidized Multiwalled Carbon Nanotube (MWCNT) - Epoxy Adhesive for Thermal Conductivity Applications

AMIT K. SINGH, BISHNU P. PANDA, SMITA MOHANTY, SANJAY K. NAYAK and MANOJ K. GUPTA
Journal of Materials Science: Materials in Electronics, 28, 8908, 2017

32. Overview of the JET Results in Support to ITER
X. LITAUDON, M. ABHANGI, J. BUCH, D. CHANDRA, P. DUTTA, P.V. EDAPPALA, M. GHATE, A. KUNDU, B. MAGESH, R. MAKWANA, S. PANJA, S. PATHAK, V. PRAJAPATI, R. PRAKASH, S. RANJAN, K. RATHOD, P. SANTA, A. SINHA, M. STEPHEN and K. VASAVA et al
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33. Helical Type EM Induction Pump with Permanently Magnetized Rotor for High Pressure Heads
BUCENIEKS, E. PLATACIS, O. MIKANOVSKIS, A. ZIK and V. MEHTA
Magnetohydrodynamics, 53, 423, 2017

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V. TOIGO, A. CHAKRABORTY, U. BARUAH, C. ROTTI, H. PATEL, M.V. NAGARAJU, N.P. SINGH, A. PATEL, H. DHOLA, B. RAVAL et al.
Nuclear Fusion, 57, 086027, 2017

35. Search for Intermediate Mass Black Hole Binaries in the First Observing Run of Advanced LIGO
B.P. ABBOTT, A. DASGUPTA, M.K. GUPTA, Z. KHAN, R. KUMAR, A.K. SRIVASTAVA, S. SUNIL, et al (LIGO Scientific Collaboration, Virgo Collaboration)
Physical Review D, 96, 022001, 2017

36. A Parametric Model for Contribution of Superthermal Electrons to Oblique Measurement Electron Cyclotron Spectra under ITER-Like Conditions
P.V. SUBHASH, AMIT KUMAR SINGH, HITESH PANDYA, V.S. DIVYA, M.P. APARNA and T.K. BASITHA THANSEEM
Fusion Science and Technology, 72, 49, 2017

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VINAY RASTOGI, S. CHAURASIA, USHA RAO, C.D. SIJOY, V. MISHRA, MANMOHAN
KUMAR, S. CHATURVEDI and M.N. DEO
Journal of Raman Spectroscopy, 48, 1007, 2017

38. Magnetic Flux Surfaces and Radial Shafranov Shifts (ΔR) in SST-1 Tokamak Plasma

SUBRATA JANA, SUBRATA PRADHAN, JASRAJ DHONGDE, HARISH MASAND, MANOJ KUMAR, SAMEER KUMAR, PRAVEENLAL EDAPPALA, HITESH PATEL and DEBASHIS GHOSH
Fusion Engineering and Design, 120, 39, 2017

39. 200 kJ Pulsed Power System for Pulsed Plasma Device
SURAMONI BORTHAKUR, NAYAN TALUKDAR, NIROD KUMAR NEOG, TRIDIP KUMAR BORTHAKUR, RAJESH KUMAR, RISHI VERMA, and ANURAG SHYAM
IEEE Transactions on Plasma Science, 45, 7949071, 2017

40. Search for High-Energy Neutrinos from Gravitational Wave Event GW151226 and Candidate LVT151012 with ANTARES and IceCube
A. ALBERT, A. DASGUPTA, M.K. GUPTA, Z. KHAN, R. KUMAR, A.K. SRIVASTAVA, S. SUNIL, et al (ANTARES Collaboration, IceCube Collaboration, LIGO Scientific Collaboration, Virgo Collaboration)
Physical Review D, 96, 022005, 2017

41. Measurements of the Cross Sections of the $^{186}W(n,\gamma)^{187}W$, $^{182}W(n,P)^{182}Ta$, $^{154}Gd(n,2n)^{153}Gd$, and $^{160}Gd(n,2n)^{159}Gd$ Reactions at Neutron Energies of 5 to 17 MeV
RAJNIKANT MAKWANA, S. MUKHERJEE, P. MISHRA, H. NAIK, N.L. SINGH, M. MEHTA, K. KATOVSKY, S.V. SURYANARAYANA, V. VANSOLA, Y. SANTHI SHEELA, M. KARKERA, R. ACHARYA, and S. KHIRWADKAR
Physical Review C, 96, 024608, 2017

42. Study of Surface Properties of Plasma Nitrided Ferritic Stainless Steel 430L
D. GAUTAM, B. GANGULI, and S. SHARMA
Material Performance and Characterization, 6, 581, 2017

43. Effect of Cold Plasma Treatment and Priming in Bell Pepper (Capsicum annuum L.)
CHERRY NALWA, ASHOK K. THAKUR, AMIT VIKRAM, R. RANE and A. VAID
International Journal of Bio-resource and Stress Management, 8, 535, 2017

44. Effect of Plasma Treatment on growth and yield of Okra (Abelmoschus Esculentus (L.) under field conditions
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45. 3D Monte-Carlo Study of Toroidally Discontinuous Limiter SOL Configurations of Aditya Tokamak
BIBHU PRASAD SAHOO, DEVENDRA SHARMA, RATNESHWAR JHA, and YUHE FENG
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    S. ADHIKARI, R. MOULICK and K.S. GOSWAMI
    Physics of Plasmas, 24, 083501, 2017

47. Study on Discharge Plasma in a Cylindrical Inertial Electrostatic Confinement Fusion Device
    N. BUZARBARUAH, N.J. DUTTA, D. BORGOHAIN, S.R. MOHANTY and H. BAILUNG
    Physics Letters A, 381, 2391, 2017

48. Numerical Investigation of Nanosecond Laser Induced Plasma and Shock Wave Dynamics from Air Using 2D Hydrodynamic Code
    S. SAI SHIVA, CH. LEELA, P. PREM KIRAN, C.D. SIJOY, V.R. IKKURTHI and S. CHATURVEDI
    Physics of Plasmas, 24, 083110, 2017

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    P.B. ORPE, C. BALASUBRAMANIAN and S. MUKHERJEE
    Pramana - Journal of Physics, 89, 20, 2017

50. Local Structure of Cobalt Nanoparticles Synthesized by High Heat Flux Plasma Process
    P.B. ORPE, E. PARIS, C. BALASUBRAMANIAN, B. JOSEPH, S. MUKHERJEE, D. DI GIOACCHINO, A. MARCELLI and N.L. SAINI
    Radiation Physics and Chemistry, 137, 108, 2017

51. LIGO-India - A Unique Adventure in Indian Science
    TARUN SOURADEEP, SENDHIL RAJA, ZIAUDDIN KHAN, C.S. UNNIKRISHNAN and BALA IYER
    Current Science, 113, 672, 2017

52. Aligned Multi-Walled Carbon Nanotubes (MWCNT) and Vapor Grown Carbon Fibers (VGCF) Reinforced Epoxy Adhesive for Thermal Conductivity Applications
    AMIT KUMAR SINGH, ASHUTOS PARHI, BISHNU PRASAD PANDA, SMITA MOHANTY, SANJAY KUMAR NAYAK and MANOJ KUMAR GUPTA
    Journal of Materials Science: Materials in Electronics, 28, 17655, 2017

53. Performance of Epitaxial and HPSI 4H-SiC Detectors for Plasma X-Ray Imaging Systems
    P.V. RAJA, J. AKHTAR, S. VALA, M. ABHANGI and N.V.L.N. MURTY
    Journal of Instrumentation, 12, 08006, 2017

54. The PRIMA Test Facility: SPIDER and MITICA Test-Beds for ITER Neutral Beam Injectors
V TOIGO, A CHAKRABORTY, U BARUAH, C ROTTI, H PATEL, M.V. NAGARAJU, N.P SINGH, A PATEL, H DHOLA, B RAVAL, ET. AL.
New Journal of Physics, 19, 085004, 2017

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RAVI PANDEY, M. BANDYOPADHYAY, R. YADAV, D. PARMAR, H. TYAGI, H. SHISHANGIYA, S. SHAH, DASS SUDHIR KUMAR, A. GAHLAUT, M. VUPPUGALLA, J. SONI, J. BHAGORA, G. BANSAL, K. PANDYA, and A. CHAKRABORTY
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56. Spatial Distribution of Atomic and Ion Hydrogen Flux and its Effect on Hydrogen Recycling in Long Duration Confined and Non-Confined Plasmas
A. KUZMIN, H. ZUSHI, I. TAKAGI, S.K. SHARMA, M. KOBAYASHI, Y. HIROOKA, T. ONCHI, K. HANADA, N. YOSHIDA, K. NAKAMURA, A. FUJISAWA, H. IDEI, Y. AGASHIMA, M. HASEGAWA, T. MUTOH, K. MISHRA and H. OHWADA
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SHARAD K YADAV, BHAVESH G PATEL, R.K SINGH, AMITA DAS, PREDHIMAN K KAW and AJAI KUMAR
Journal of Physics D: Applied Physics, 50, 355201, 2017 (IPR/RR-825/2016)

58. Development of a Novel Surface Assisted Volume Negative Hydrogen Ion Source
B. KAKATI, S.S. KAUSIK, M. BANDYOPADHYAY, B.K. SAIKIA and P.K. KAW
Scientific Reports, 7, 11078, 2017

59. Development and Validation of ACTYS, an Activation Analysis Code
SAI CHAITANYA TADEPALLI, PRITI KANTH, GUNJAN INDAULIYA, ISHWITA SAIKIA, SHISHIR P. DESHPANDE, P.V. SUBHASH
Annals of Nuclear Energy, 107, 71, 2017

60. Structural, Mechanical and Corrosion Resistance Properties of Ti/TiN Bilayers Deposited by Magnetron Sputtering on AISI 316L
K. SHUKLA, R. RANE, J. ALPHONSA, P. MAITY and S. MUKHERJEE
Surface and Coatings Technology, 324, 167, 2017 (IPR/RR-798/2016)

61. Influence of Pretreatment on Surface Behavior of Duplex Plasma Treated AISI H13 Tool Steel

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62. Spectrum Average Cross Section Measurement of 183W (n, p) 183Ta and 184W (n, p) 184Ta Reaction Cross Section in 252Cf (sf) Neutron Field
RAJNIKANT MAKWANA, S. MUKHERJEE, L. SNOJ, S.S. BARALA, M. MEHTA, P. MISHRA, S. TIWARI, M. ABHANGI, S. KHIRWADKAR and H. NAIK
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63. Novel Target Design for Enhanced Laser Driven Proton Acceleration
MALAY DALUI, M. KUNDU, SHEROY TATA, AMIT D. LAD, J. JHA, KRISHANU RAY, and M. KRISHNAMURTHY
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B.P. ABBOTT, A. DASGUPTA, M.K. GUPTA, Z. KHAN, R. KUMAR, A.K. SRIVASTAVA, S. SUNIL, et al. (LIGO Scientific Collaboration and Virgo Collaboration)
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MUKESH RANJAN, PURVEE JOSHI, MUKUL BHATNAGAR and SUBROTO MUKHERJEE
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67. Observation of Enhanced Absorption of Laser Radiation by Nanostructured Targets in PIC Simulations
CHANDRASEKHAR SHUKLA and AMITA DAS
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68. Design of Biodegradable Quadruple-Shaped DRA for WLAN/Wi-Max Applications
PRAMOD KUMAR, SANTANU DWARI, UTKARSH and JITENDRA KUMAR
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69. Nuclear Analyses of Neutron Activation System for Indian TBM
H.L. SWAMI, A.K. SHAW, A.N. MISTRY, S. TIWARI and C. DANANI
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70. Spectroscopic Performance Studies of 4H-SiC Detectors for Fusion Alpha-Particle Diagnostics
P. VIGNESHWARA RAJA, JAMIL AKHTAR, C.V.S. RAO, SUDHIRSINH VALA, MITUL ABHANGI and N.V.L. NARASIMHA MURTY
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71. Development, Optimization and Validation of Ultrasonic Testing for NDE of ELM Coils
K. BHOPE, M. GHATE, M. MEHTA, A. PANCHAL, S. PRADHAN and S. KHIRWADKAR
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72. Intrinsic Non-Inductive Current Driven by ETG Turbulence in Tokamaks
RAMESWAR SINGH, P.K. KAW, R. SINGH, and O.D. GURCAN
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73. Effect of Colloidal Processing on Densification and Dielectric Properties of Ba(Zn1/3Ta2/3)O3 Ceramics
SWATHI MANIVANNAN, ANDREWS JOSEPH, P.K. SHARMA, K.C. JAMES RAJU and DIBAKAR DAS
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B.P. ABBOTT, A. DASGUPTA, M.K. GUPTA, Z. KHAN, R. KUMAR, A.K. SRIVASTAVA, S. SUNIL, et al. (LIGO Scientific Collaboration and Virgo Collaboration)
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B.P. ABBOTT, A. DASGUPTA, M.K. GUPTA, Z. KHAN, R. KUMAR, A.K. SRIVASTAVA, S. SUNIL, et al. (LIGO Scientific Collaboration and Virgo Collaboration)
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76. Joining of WCu-CuCrZr Coupon Materials by Diffusion Bonding Technique for Divertor Plasma Facing Components
K. PREMJIT SINGH, RUSHUB BHAVSAR, KAUSHAL PATEL, S.S. KHIRWADKAR, ALPESH PATEL AND KEDAR BHOPE

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77. Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A
B.P. ABBOTT, A. DASGUPTA, M.K. GUPTA, Z. KHAN, R. KUMAR, A.K. SRIVASTAVA, S. SUNIL, et al. (LIGO Scientific Collaboration and Virgo Collaboration)
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78. Observation of Thick Toroidal Filaments during the Disruptive Phase of Aditya Tokamak Plasma
SANTANU BANERJEE, N. BISAI, D. CHANDRA, P. DHYANI, R. MANCHANDA, M.B. CHOWDHURI, N. RAMAIYA, D. SANGWAN, J. GHOSH, R.L. TANNA, P.K. CHATTOPADHYAY, D. RAJU, P.K. ATREY, Y. SHANKAR JOISA, A. SEN, P.K. KAW and ADITYA TEAM
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NEERAJ CHAUBEY, S. MUKHERJEE and A. SEN
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80. Investigation of Diocotron Modes in Toroidally Trapped Electron Plasmas using Non-Destructive Method
LAVKESH LACHHVANI, SAMBARAN PAHARI, SUDIP SENGUPTA, YOGESH G. YEOLE, MANU BAJPAI and P.K. CHATTOPADHYAY
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A.K. SANYASI, L.M. AWASTHI, P.K. SRIVASTAVA, S.K. MATTOO, D. SHARMA, R. SINGH, R. PAIKARAY and P.K. KAW
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82. Calibration of Neutron Detectors on the Joint European Torus
PAOLA BATISTONI, S. POPOVICHEV, S. CONROY, I. LENGAR, A. CUFAR, M. ABHANGI, L. SNOJ, L. HORTON, and JET CONTRIBUTORS
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ARUN PANDEY, M. BANDYOPADHYAY, DASS SUDHIR, and A. CHAKRABORTY

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4. Design and Integration of SMBI System for SST-1 Tokamak
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5. Baking and Helium Glow Discharge Cleaning of SST-1 Tokamak with Graphite Plasma Facing Components
   P. SEMWAL, Z. KHAN, D.C. RAVAL, K.R. DHANANI, S. GEORGE, Y. PARAVASTU, A. PRAKASH, P. THANKEY, G. RAMESH, M.S. KHAN, P. SAIKIA and S. PRADHAN
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6. Sensitivity Analysis of Upstream Plasma Condition for SST-1 X-Divertor Configuration with SOLPS
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8. Preparation of W/CuCrZr Mono-Block Test Mock-Up Using Vacuum Brazing Technique
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10. ITER ECE Diagnostic: Design Progress of IN-DA and the Diagnostic Role for Physics
    H.K.B. PANDYA, RAVINDER KUMAR, S. DANANI, P. SHRISHAIL, SAJAL THOMAS, VINAY KUMAR, G. TAYLOR, A. KHODAK, W.L. ROWAN, S. HOUSHMANDYAR, V.S. UDINTSEV, N. CASAL and M.J. WALSH
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11. The Determination of Plasma Radial Shafranov Shift (Δr) and Vertical Shift (Δz) Experimentally Using Magnetic Probe and Flux Loop Method for SST-1 Tokamak
    SUBRATA JANA, JASRAJ DHONGDE, HARISH MASAND, SUBRATA PRADHAN, SAMEER KUMAR and SST-1 TEAM
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12. Nuclear Analyses of Indian LLCB Test Blanket System in ITER
    H.L. SWAMI, A.K. SHAW, C. DANANI and PARITOSH CHAUDHURI
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13. Preliminary Design Development of ITER X-Ray Survey Spectrometer
    SANJEEV VARSHNEY, SIDDHARTH KUMAR, SAPNA MISHRA, NAMITA YADAV, P.V. SUBHUSH, T.S. CHAITANYA, SHIVAKANT JHA, VINAY KUMAR, ROBIN BARNSLEY, PHILIPPE BERNASCOLLE, NATALIA CASAL, GUNTER BERTSCHINGER, STEFAN SIMROCK, JEAN-MARC DREVON and MICHAEL WALSH
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14. Role of Outgassing of ITER Vacuum Vessel In-Wall Shielding Materials in Leak Detection of ITER Vacuum Vessel
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16. Design of a Prototype Positive Ion Source with Slit Aperture Type Extraction System
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17. Upgradation Plans of SST-1 Cryogenics System at IPR
V.L. TANNA, SST-1 CRYO TEAM and S. PRADHAN
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18. Development of Control System for Multi-Converter High Voltage Power Supply using Programmable SoC
RASESH DAVE, JAGRUTI DHARANGUTTI, N.P. SINGH, ARUNA THAKAR, HITESH DHOLA, SANDIP GAJJAR, DARSHAN PARMAR, TANISH ZAVERI and UJJWAL BARUAH
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21. Thermo-Mechanical Design Methodology for ITER Cryodistribution Cold Boxes
VINIT SHUKLA, PRATIK PATEL, JOTIRMOY DAS, HITENSINH VAGHELA, RITENDRA BHATTACHARYA, NITIN SHAH, KETAN CHOUKEKAR, HYUN-SIK CHANG and BISWANATH SARKAR
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23. Design and Development of CRIO Based Data Acquisition and Control System for High Voltage Bushing Experiment
HIMANSHU TYAGI, SEJAL SHAH, RATNAKAR YADAV, KARTIK PATEL, HIREN MISTRI, DEEPAK PARMAR, DHEERAJ SHARMA, MAINAK BANDYOPADHYAY and ARUN K CHAKRABORTY
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D. KALITA, B. KAKATI, B.K. SAIKIA, M. BANDYOPADHYAY and S.S. KAUSIK
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25. Seismic Design of ITER Component Cooling Water System-1 Piping
ADITYA P. SINGH, MAHESH JADHAV, LALIT K. SHARMA, DINESH K GUPTA, NIRAV PATEL, RAKESH RANJAN, GUMAN GOHIL, HIREN PATEL, JINENDRA DANGI, MOHIT KUMAR and A.G.A KUMAR
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26. Alternate Design of ITER Cryostat Skirt Support System
MANISH KUMAR PANDEY, SAROJ KUMAR JHA, GIRISH KUMAR GUPTA, AVIK BHATTACHARYA, GAURAV JOGI and ANIL KUMAR BHARDWAJ
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27. Assembly & Metrology of First Wall Components of SST-1
TEJAS PAREKH, PROSENJIT SANTRA, PRABAL BISWAS, HITESHKUMAR PATEL, YUVAKIRAN PARAVASTU, SNEHAL JAISWAL, PRADEEP CHAUHAN, GATTU RAMESH BABU, ARUN PRAKASH A, DHAVAL BHAVSAR, DILIP C RAVAL, ZIAUDDIN KHAN and SUBRATA PRADHAN
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DEVEN KANABAR, SWATI ROY, CHIRAGKUMAR DODIYA and SUBRATA PRADHAN
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29. Improving Anti-Felting Characteristics of Merino Wool Fiber by 2.5 MHz Atmosphere Pressure Air Plasma
NISHA CHANDWANI, PURVI DAVE, VISHAL JAIN, SUDHIR NEMA and SUBROTO MUKHERJEE

Journal of Physics: Conference Series, 823, 012010, 2017

30. Study of Transport and Micro-Structural Properties of Magnesium Di-Boride Strand under React and Bend Mode and Bend and React Mode
    ANANYA KUNDU, SUBRAT KUMAR DAS, ANEES BANO and SUBRATA PRADHAN
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31. Preliminary Design of O-Mode Radiometer for ITER ECE Diagnostic
    S. DANANI, H.K.B. PANDYA, RAVINDER KUMAR, M.E. AUSTIN, V.S. UDINTSEV and VINAY KUMAR
    Journal of Physics: Conference Series, 823, 012034, 2017

32. A Fixed Frequency Reflectometer to Measure Density Fluctuations at Aditya Tokamak
    PRAVEEN KUMAR ATREY, DHAVAL PUJARA and SUBROTO MUKHERJEE
    Journal of Physics: Conference Series, 823, 012011, 2017

33. Integration & Validation of LCU with Different Sub-Systems for Diacrode Based Amplifier
    KUMAR RAJNISH, SRIPRAKASH VERMA, DIPAL SONI, HRIDAY PATEL, GAJENDRA SUTHAR, HRUSHIKESH DALICHA, HITESH DHOLA, AMIT PATEL, DISHANG UPADHAYAY, AKHIL JHA, MANOJ PATEL, RAJESH TRIVEDI, HARSHA MACHCHHAR, RAGHURAJ SINGH and APARAJITA MUKHERJEE
    Journal of Physics: Conference Series, 823, 012036, 2017

34. Development of Heat Sink Concept for Near-Term Fusion Power Plant Divertor
    SANDEEP RIMZA, SAMIR KHIRWADKAR and KARUPANNA VELUSAMY
    Journal of Physics: Conference Series, 823, 012012, 2017

35. Observation of MHD Phenomenon for SST-1 Superconducting Tokamak
    MANISHA BHANDARKAR, JASRAJ DHONGDE and SUBRATA PRADHAN
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36. Gas Fuelling System for SST-1Tokamak
    KALPESH DHANANI, D.C. RAVAL, ZIAUDDIN KHAN, PRATIBHA SEMWAL, SIJU GEORGE, YUVAKIRAN PARAVASTU, PRASHANT THANKEY, M.S. KHAN and SUBRATA PRADHAN
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37. Preliminary Results from Electron Cyclotron Measurements at SST-1
    VARSHA SIJU, PRAVEENA SHUKLA, JAYESH RAVAL, JOISA. Y. SHANKARA and S.K. PATHAK
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38. Preparation and Analysis of Helium Purge Gas Mixture to Be Used in Tritium Extraction System of LLCB TBM
V. GAYATHRI DEVI, DEEPAK YADAV and AMIT SIRCAR
Journal of Physics: Conference Series, 823, 012053, 2017

39. Design of New Central Solenoid for SST-1
UPENDRA PRASAD, SUBRATA PRADHAN, MAHESH GHATE, PIYUSH RAJ, V.L TANNA, ZIAUDDIN KHAN, SWATI ROY, PROSENJIT SANTRA, PRABAL BISWAS, A.N. SHARMA, YOHAN KHRISTI, DEVEN KANABER and PANKAJ VARMORA
Journal of Physics: Conference Series, 823, 012059, 2017

40. Observation of Plasma Shift in SST-1 Using Optical Imaging Diagnostics
MANOJ KUMAR, CHESTA PARMAR, VISHNU CHAUDHARY, AJAI KUMAR and SST-1 TEAM
Journal of Physics: Conference Series, 823, 012056, 2017

41. Initial Results in SST-1 after Up-Gradation
S. PRADHAN, Z. KHAN, V.L. TANNA, U. PRASAD, Y. PARAVASTU, D.C. RAVAL, H. MASAND, AVEG KUMAR, J.R. DHONGDE, S. JANA, B. KAKATI, K.B. PATEL, M.K. BHANDARKAR, B.K. SHUKLA, D. GHOSH, H.S. PATEL, T.J. PAREKH, I.A. MANSURI, K.R. DHANANI, A. VARADHARAJULU, Y.S. KHRISTI, P. BISWAS, C.N. GUPTA, S. GEORGE, P. SEMWAL, D.K. SHARMA, H.K. GULATI, K. MAHAJAN, B.R. PRAGHI, M. BANAUDHA, A.R. MAKWANA, H.H. CHUDASMA, M. KUMAR, R. MANCHANDA, Y.S. JOISA, K. ASUDANI, S.N. PANDYA, S.K. PATHAK, S. BANERJEE, P.J. PATEL, P. SANTRA, F.S. PATHAN, P.K. CHAUHAN, M.S. KHAN, P.L. THANKEY, A. PRAKASH, P.N. PANCHAL, R.N. PANCHAL, R.J. PATEL, G.I. MAHSURIA, D.P. SONARA, K.M. PATEL, S.P. JAYASWAL, M. SHARMA, J.C. PATEL, P. VARMORA, G.L. N. SRIKANTH, D.R. CHRISTIAN, A. GARG, N. BAIRAGI, G.R. BABU, A.G. PANCHAL, M.M. VORA, A.K. SINGH, R. SHARMA, H.D. NIMAVAT, P.R. SHAH, G. PURWAR, T.Y. RAVAL, A.L. SHARMA, A. OJHA, S. KUMAR, N.K. RAMAIYA, V. SIJU, M.V. GOPALAKRISHNA, A. KUMAR, P.K. SHARMA, P.K. ATREY, S.V. KULKARNI, K.K. AMBULKAR, P.R. PARMAR, A.L. THAKUR, J.V. RAVAL, S. PUROHIT, P.K MISHRA, A.N. ADHIYA, U.C. NAGORA, J. THOMAS, V.K. CHAUDHARI, K.G. PATEL, S. DALAKOTI, C.G. VIRANI, S. GUPTA, AJAY KUMAR, B. CHAUDHARI, R. KAUR, R. SRINIVASAN, D. RAJU, D.H. KANABAR, R. JHA, A. DAS, D. BORA and SST-1 TEAM
Journal of Physics: Conference Series, 823, 012004, 2017

42. Serial Interface through Stream Protocol on EPICS Platform for Distributed Control and Monitoring

ARNAB DAS GUPTA, AMIT K. SRIVASTAVA, S. SUNIL and ZIAUDDIN KHAN
Journal of Physics: Conference Series, 823, 012048, 2017

43. Comparative Analysis on Flexibility Requirements of Typical Cryogenic Transfer Lines
MOHIT JADON, UDAY KUMAR, KETAN CHOUKEKAR, NITIN SHAH and BISWANATH SARKAR
Journal of Physics: Conference Series, 823, 012042, 2017

44. Wilkinson Type Lumped Element Combiner-Splitter for Indigenous Amplifier Development
MANOJ PATEL, AKHIL JHA, JVS HARIKRISHNA, RAJESH TRIVEDI and APARAJITA MUKHERJEE
Journal of Physics: Conference Series, 823, 012005, 2017

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