

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

2018-2019 (163 Reprints)

1. Design and Analysis of Manifolds for Indian HCCB Blanket Module

DEEPAK SHARMA, PARITOSH CHAUDHURI

[Fusion Engineering and Design, 129, 40, 2018](#)

2. ACTYS-ASG, Tool for Coupling ACTYS-1-GO with ATTILA

PRITI KANTH, P.V. SUBHASH

[Fusion Engineering and Design, 129, 196, 2018](#)

3. Spiral Waves in Driven Dusty Plasma Medium: Generalized Hydrodynamic Fluid Description

SANDEEP KUMAR, BHAVESH PATEL, AMITA DAS

[Physics of Plasmas, 25, 043701, 2018](#)

4. Interplay of Single Particle and Collective Response in Molecular Dynamics Simulation of Dusty Plasma System

SRIMANTA MAITY, AMITA DAS, SANDEEP KUMAR, SANAT KUMAR TIWARI

[Physics of Plasmas, 25, 043705, 2018](#)

5. Numerical Investigation of Hydrogen Absorption in a Stackable Metal Hydride Reactor Utilizing Compartmentalization

PURUSHOTHAMA CHIPPAR, SWARAJ D. LEWIS, SUDHIR RAI, AMIT SIRCAR

[International Journal of Hydrogen Energy, 43, 8007, 2018](#)

6. Activation Characteristics of Candidate Structural Materials for a Near-Term Indian Fusion Reactor and the Impact of Their Impurities on Design Considerations

H.L. SWAMI, C. DANANI and A.K. SHAW

[Plasma Science Technology, 20, 065602, 2018](#)

7. Supersonic Flows Past an Obstacle in Yukawa Liquids

HARISH CHARAN, RAJARAMAN GANESH

[Physics of Plasmas, 25, 043706, 2018](#)

8. A New Multi-Line Cusp Magnetic Field Plasma Device (MPD) with Variable Magnetic Field

A.D. PATEL, M. SHARMA, N. RAMASUBRAMANIAN, R. GANESH, and P. K. CHATTOPADHYAY

[Review of Scientific Instruments, 89, 043510, 2018](#)

9. Role of Ion Magnetization in Formation of Radial Density Profile in Magnetically Expanding Plasma Produced by Helicon Antenna

SONU YADAV, SOUMEN GHOSH, SAYAK BOSE, KSHITISH K. BARADA, RABINDRANATH PAL, and PRABAL K. CHATTOPADHYAY

[Physics of Plasmas, 25, 043518, 2018](#)

10. Electro-Mechanical Probe Positioning System for Large Volume Plasma Device

A. K. SANYASI, R. SUGANDHI, P. K. SRIVASTAVA, PRABHAKAR SRIVASTAV, and L. M. AWASTHI

[Review of Scientific Instruments, 89, 055113, 2018](#)

11. Size-Controlled Synthesis of Superparamagnetic Iron-Oxide and Iron-Oxide/Iron/Carbon Nanotube nanocomposites by Supersonic Plasma Expansion Technique
LAVITA SARMA, TRINAYAN SARMAH, N AOMOA, S SARMA, U DESHPANDE, HEMAN BHUYAN, SUNITA OJHA, U BORA and M KAKATI

[Journal of Physics D: Applied Physics, 51, 195003, 2018](#)

12. Studies on Probe Measurements in Presence of Magnetic Field in Dust Containing Hydrogen Plasma

DEIJI KALITA, BHARAT KAKATI, SIDDHARTHA SANKAR KAUSIK, BIPUL KUMAR SAIKIA, MAINAK BANDYOPADHYAY

[The European Physical Journal D, 72, 74, 2018](#)

13. Analysis of Trace Levels of Impurities and Hydrogen Isotopes in Helium Purge Gas using Gas Chromatography for Tritium Extraction System of an Indian Lead Lithium Ceramic

V. GAYATHRI DEVI, AMIT SIRCAR, DEEPAK YADAV, JAYRAJ PARMAR

[Journal of Separation Science, 41, 1798, 2018](#)

14. A Review of Alfvénic Turbulence in High-Speed Solar Wind Streams: Hints from Cometary Plasma Turbulence

BRUCE T. TSURUTANI, GURBAX S. LAKHINA, ABHIJIT SEN, PETR HELLINGER, KARL-HEINZ GLASSMEIER, ANTHONY J. MANNUCCI

[Journal of Geophysical Research: Space Physics, 123, 2458, 2018](#)

15. Validation of Numerical Solvers for Liquid Metal Flow in a Complex Geometry in the Presence of a Strong Magnetic Field

ANITA PATEL, GAUTAM PULUGUNDLA, SERGEY SMOLENTSEV, MOHAMED ABDOU, RAJENDRAPRASAD BHATTACHARYAY

[Theoretical and Computational Fluid Dynamics, 32, 165, 2018](#)

16. Recent Activities on SST-1 and ADITYA-U Tokamaks

PROMOD K. SHARMAK, YOGESH M. JAIN, KIRAN K. AMBULKAR, PRAMOD R. PARMAR, CHETAN G. VIRANI, SAIFALI DALAKOTI, JAGABANDHU KUMAR, ARVIND L. THAKUR, DANIEL RAJU, JOYDEEP GHOSH, SST-1 and ADITYA-U TEAM

[Plasma and Fusion Research, 13, 3502100, 2018](#)

17. Characteristics of Simultaneous Epoxy-Novolac Full Interpenetrating Polymer Network (IPN) Adhesive

SABBIR AHMED, DEBABRATA CHAKRABARTY, SUBROTO MUKHERJEE and SHANTANU BHOWMIK

[Journal of Adhesion Science and Technology, 32, 705, 2018](#)

18. Amplitude Mediated Chimera States with Active and Inactive Oscillators

RUPAK MUKHERJEE and ABHIJIT SEN

[Chaos, 28, 053109, 2018](#)

19. Plasma Production and Preliminary Results from the ADITYA Upgrade Tokamak

R L TANNA, J GHOSH, HARSHITA RAJ, ROHIT KUMAR, SUMAN AICH, VAIBHAV RANJAN, K A JADEJA, K M PATEL, S B BHATT, K SATHYANARAYANA

[Plasma Science and Technology, 20, 074002, 2018](#)

20. Study of Runaway Electrons in TUMAN-3M Tokamak Plasmas

A SHEVELEV, E KHILKEVITCH, A TUKACHINSKY, S PANDYA, L ASKINAZI, A BELOKUROV, I CHUGUNOV, D DOINIKOV, D GIN, M ILIASOVA

[Plasma Physics and Controlled Fusion, 60, 075009, 2018](#)

21. The Electrical Asymmetry Effect in a Multi Frequency Geometrically Asymmetric Capacitively Coupled Plasma: a Study by a Nonlinear Global Model

P. SAIKIA, H. BHUYAN, M. ESCALONA, M. FAVRE, B. BORA, M. KAKATI, E. WYNDHAM, R. S. RAWAT, and J. SCHULZE

[Journal of Applied Physics, 123, 183303, 2018](#)

22. Energy Principle for Excitations in Plasmas with Counterstreaming Electron Flows

ATUL KUMAR, CHANDRASEKHAR SHUKLA, AMITA DAS and PREDHIMAN KAW

[AIP Advances, 8, 055213, 2018](#)

23. Self-Organized Criticality: An Interplay between Stable and Turbulent Regimes of Multiple Anodic Double Layers in Glow Discharge Plasma

PRINCE ALEX, BENJAMIN ANDRES CARRERAS, SARAVANAN ARUMUGAM and SURAJ KUMAR SINHA

[Physics of Plasmas, 25, 053514, 2018](#)

24. Development, Characterizations, and Applications of a Hand Touchable DC Plasma Needle for Biomedical Investigation

BISWAJIT BORA, A. AGUILERA, JALAJ JAIN, GONZALO AVARIA, JOSE MORENO, SURYAKANT B. GUPTA and LEOPOLDO SOTO

[IEEE Transactions on Plasma Science, 46, 1768, 2018](#)

25. Primary Knock on Atom Spectra, Gas Production and Displacement Cross Section for Tungsten and Chromium Irradiated with Neutrons at Energies up to 14.1 MeV

MAYANK RAJPUT, S. VALA, P.V. SUBHASH, R. SRINIVASAN, RATNESH KUMAR, M. ABHANGI

[Fusion Engineering and Design, 130, 114, 2018](#)

26. Time Resolved Analysis Algorithm for Ramped Langmuir Probe to Study Temporal Evolution of Plasma Parameters in ROBIN

B.K. DAS, M. BANDYOPADHYAY, K. PATEL, K. PANDYA, H. TYAGI, R. YADAV, M. BHUYAN, J. BHAGORA, A. GAHLAUT, A. CHAKRABORTY

[Fusion Engineering and Design, 130, 122, 2018](#)

27. Estimation of (n,p) and (n, α) Cross Section of Radionuclide ^{60}Co for Fusion Technology Applications

JYOTI PANDEY, BHAWNA PANDEY, H. M. AGRAWAL, P. V. SUBHASH, S. VALA, AKHIL SAI AIYYALA, RAJNIKANT MAKWANA and S. V. SURYANARAYANA

[Fusion Science and Technology, 73, 545, 2018](#)

28. MHD Mode Bispectral Analysis from Density Fluctuations in Aditya Discharges

P.K. ATREY, DHAVAL PUJARA, S. MUKHERJEE

[Fusion Engineering and Design, 130, 89, 2018](#)

29. A Prototype Experiment on Cryocooler based Cryopump
MILIND PATEL, ARUN KUMAR CHAKRABORTY, MAINAKBANDYO PADHYAY, CHANDRAMOULI ROTTI,
DEEPAK PARMAR, HARDIK SHISHANGIYA, HIMANSHU TYAGI, RATNAKAR YADAV, KARTIK PATEL,
HIREN MISTRY, KAUSHAL PANDYA
[Indian Journal of Cryogenics, 43, 40, 2018](#)
30. Generation and Transport of Runaway Electrons during Sawteeth Crash in the ADITYA Tokamak
HARSHITA RAJ, J. GHOSH, R.L. TANNA, P.K. CHATTOPADHYAY, D. RAJU, S.K. JHA, J. RAVAL, Y.S. JOISA,
S. PUROHIT, P.K. ATREY, Y.C. SAXENA,
RABINDRANATH PAL and THE ADITYA TEAM
[Nuclear Fusion, Volume 58, 076004, 2018](#)
31. Self-Organized Nanostructure Formation on the Graphite Surface Induced by Helium Ion
Irradiation
N.J. DUTTA, S.R. MOHANTY, N. BUZARBARUAH, M. RANJAN, R.S. RAWAT
[Physics Letters A, 382, 1601, 2018](#)
32. Developing Control of Cryo-Pump Test Cold-Box System: Some Investigations
RITENDRA NATH BHATTACHARYA, JAYESH BARVE
[IFAC Papers Online, 51, 419, 2018](#)
33. Dynamical Resonance Shift and Unification of Resonances in Short Pulse Laser-Cluster Interaction
S. S. MAHALIK and M. KUNDU
[Physical Review A, 97, 063406, 2018](#)
34. Experimental Investigation of Near Anode Phenomenon in Inverted Cylindrical Magnetron
Discharge
R. RANE, P. BANDYOPADHYAY, M. BANDYOPADHYAY and S. MUKHERJEE
[Physics of Plasmas, 25, 063516, 2018](#)
35. Reaction Temperature Dependent Shape-Controlled Studies of Copper-Oxide Nanocrystals
JANKI SHAH, MUKESH RANJAN, SANJEEV K GUPTA, A SATYAPRASAD, SUNIL CHAKI AND YOGESH
SONVANE
[Materials Research Express, 5, 065037, 2018](#)
36. Microwave Hydrothermal Synthesis of α -MnMoO₄ Nanorods for High Electrochemical
Performance Supercapacitors
S. JAYASUBRAMANIYAN, S. BALASUNDARI, P. A. RAYJADA, N. SATYANARAYANA and P.
MURALIDHARAN
[RSC Advances, 8, 22559, 2018](#)
37. Effect of Magnetic Shear on Edge Turbulence in SOL-Like Open Field Line Configuration in QUEST
SANTANU BANERJEE, H ZUSHI, N NISHINO, K HANADA, H IDEI, K NAKAMURA, M HASEGAWA, A
FUJISAWA, Y NAGASHIMA, K MISHRA, S TASHIMA, T ONCHI, A KUZMIN and K MATSUOKA
[Plasma Physics & Control Fusion, 60, 085014, 2018](#)
38. Spiral Waves in Driven Strongly Coupled Yukawa Systems

SANDEEP KUMAR and AMITA DAS

[Physical Review E, 97, 063202, 2018](#)

39. Influence of Excitation Frequency on the Metastable Atoms and Electron Energy Distribution Function in a Capacitively Coupled Argon Discharge

S. SHARMA, N. SIRSE, M. M. TURNER, and A. R. ELLINGBOE

[Physics of Plasmas, 25, 063501, 2018](#)

40. Gain and Bandwidth Enhancement of Tetracuspid-Shaped DRA Mounted with Conical Horn

PRAMOD KUMAR, SANTANU DWARI, UTKARSH, N. K. AGRAWAL, JITENDRA KUMAR

[Frequenz: Journal of RF-Engineering and Telecommunications, 72, 315, 2018](#)

41. Design Optimization of First Wall and Breeder Unit Module Size for the Indian HCCB Blanket Module

DEEPAK SHARMA and PARITOSH CHAUDHURI

[Plasma Science and Technology, 20, 065604, 2018](#)

42. Simulation of Hybrid Laser-Tig Welding Process using FEA

HARINADH VEMANABOINA, G. EDISON, SURESH AKELLA, RAMESH KUMAR BUDDU

[Journal of Engineering Science and Technology, 13, 1782, 2018](#)

43. A New Linear Plasma Device for the Study of Plasma Waves in the Electron Magnetohydrodynamics Regime

GARIMA JOSHI, G RAVI, S MUKHERJEE

[Pramana - Journal of Physics, 90, 79, 2018](#)

44. Synthesis of Finest Superparamagnetic Carbon-Encapsulated Magnetic Nanoparticles by a Plasma Expansion Method for Biomedical Applications

LAVITA SARMA, N. AOMOA, TRINAYAN SARMAH, S. SARMA, A. SRINIVASAN, G. SHARMA, AJAY GUPTA, V.R. REDDY, B. SATPATI, D.N. SRIVASTAVA, S. DEKA, L.M. PANDEY, M. KAKATI

[Journal of Alloys and Compounds, 749, 768, 2018](#)

45. Recent Developments on Epoxy-Based Thermally Conductive Adhesives (TCA): A Review

AMIT KUMAR SINGH, BISHNU PRASAD PANDA, SMITA MOHANTY, SANJAY KUMAR NAYAK and MANOJ KUMAR GUPTA

[Polymer - Plastics Technology and Engineering, 57, 903, 2018](#)

46. Role of Return Currents in the Dynamics of a Magnetically Rastered Plasma Torch

VIDHI GOYAL, G. RAVI and S. MUKHERJEE

[Physics of Plasmas, 25, 073504, 2018](#)

47. Influence of the Shroud Gas Injection Configuration on the Characteristics of A DC Non-Transferred Arc

YUGESH VADIKKEETIL, RAVI GANESH, RAMACHANDRAN KANDASAMY, VIDHI GOYAL, KAILSHA CHANDRA MEHER

[Plasma Chemistry and Plasma Processing, 38, 759, 2018](#)

48. Pt Metal Supported and Pt⁴⁺ Doped La_{1-x}Sr_xCoO₃: Non-Performance of Pt⁴⁺ and Reactivity Differences with Pt Metal
ANUJ BISHT, AMITA SIHAG, AKKIREDDY SATYAPRASAD, SAIRAM S. MALLAJOSYALA, SUDHANSHU SHARMA

[Catalysis Letters, 148, 1965, 2018](#)

49. Study of Plasma Nitriding and Nitro carburising of AISI 430F Stainless Steel for High Hardness and Corrosion Resistance

J. ALPHONSA, S. MUKHERJEE and V. S. RAJA

[Corrosion Engineering Science and Technology, 53, 51, 2018](#)

50. A Compact Wideband and High Gain GRIN Metamaterial Lens Antenna System Suitable For C, X, Ku Band Application

BAJRA PANJAR MISHRA, SUDHAKAR SAHU, S.K.S. PARASHAR, SURYA K. PATHAK

[Optik, 165, 266, 2018](#)

51. Data-Acquisition, Control & Interlock System Design for Corrosion Experiments of IN-RAFM Steel with Flowing Pb-Li in Presence of Magnetic Field

ABHISHEK SARASWAT, SHRIKANT VERMA, SANDEEP GUPTA, A. SARADA SREE, E. RAJENDRA KUMAR

[Fusion Engineering and Design, 132, 119, 2018](#)

52. Numerical and Experimental MHD Studies of Lead-Lithium Liquid Metal Flows in Multichannel Test-Section at High Magnetic Fields

P.K. SWAIN, A. SHISHKO, P. MUKHERJEE, V. TIWARI, S. GHORUI, R. BHATTACHARYAY, A. PATEL, P. SATYAMURTHY, S. IVANOV, E. PLATACIS, A. ZIKS

[Fusion Engineering and Design, 132, 73, 2018](#)

53. Electron Hole Instability as a Primordial Step towards Sustained Intermittent Turbulence in Linearly Subcritical Plasmas

DEBRAJ MANDAL, DEVENDRA SHARMA and HANS SCHAMEL

[New Journal of Physics, 20, 073004, 2018](#)

54. Measurement of ²³²Th(n, γ) Reaction Cross Sections in the Neutron Energy Range of 11-19 MeV
SIDDHARTH PARASHARI, S. MUKHERJEE, A. P. SINGH, VIBHA VANSOLA, H. NAIK, B. K. NAYAK, RAJNIKANT MAKWANA, S. V. SURYANARAYANA, N. L. SINGH, MAYUR MEHTA, Y. S. SHEELA, M. KARKERA, R. D. CHAUHAN, and S. C. SHARMA

[Physical Review C, 98, 014625, 2018](#)

55. Propagation of Electrostatic Surface Wave along the Dust Void Boundary

RINKU MISHRA and M DEY

[Physica Scripta, 93, 085601, 2018](#)

56. Dynamics of Dust Events in the Graphite First Wall Equipped SST-1 Tokamak

SANTANU BANERJEE, SHWETANG N PANDYA, R MANCHANDA, M B CHOWDHURI, N RAMAIYA, SANTOSH P PANDYA, J GHOSH and the SST-1 TEAM

[Plasma Physics and Controlled Fusion, 60, 960 095001, 2018](#)

57. Corrosion Experiments on IN-RAFM Steel in Flowing Lead-Lithium for Indian LLCB TBM

SARADA SREE ATCHUTUNI, ABHISHEK SARASWAT, CHANDRA SEKHAR SASMAL, S. VERMA, ASHOK K. PRAJAPATI, ANKUR JAISWAL, SANDEEP GUPTA, JIGNESH CHAUHAN, KARISHMA B. PANDYA, MAYANK MAKWANA, HARDIK TAILOR, HEMANG S. AGRAVAT, PRASAD RAO P., RAJENDRA KUMAR E.

[Fusion Engineering and Design, 132, 52, 2018](#)

58. SERS Based Detection of Glucose with Lower Concentration than Blood Glucose Level using Plasmonic Nanoparticle Arrays

K.P. SOORAJ, MUKESH RANJAN, REKHA RAO, SUBROTO MUKHERJEE

[Applied Surface Science, 447, 576, 2018](#)

59. Effect of Titanium Nitride Coating for Improvement of Fire Resistivity of Polymer Composites for Aerospace Application

GANESH VENKATESAN, PR JITHIN, T VIGNESH RAJAN, MOHAN KUMAR PITCHAN, SHANTANU BHOWMIK, R RANE, S MUKHERJEE

[Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 232, 1692, 2018](#)

60. Plasma Parameters Controlled by a Movable Ion Sheath

M. K. MISHRA, A. PHUKAN, and M. CHAKRABORTY

[Plasma Physics Reports, 44, 775, 2018](#)

61. A Dust Particle Based Technique to Measure Potential Profiles in a Plasma

GARIMA ARORA, P. BANDYOPADHYAY, M. G. HARIPRASAD, and A. SEN

[Physics of Plasmas, 25, 083711, 2018](#)

62. Plasma Density and Ion Energy Control via Driving Frequency and Applied Voltage in a Collisionless Capacitively Coupled Plasma Discharge

SARVESHWAR SHARMA, ABHIJIT SEN, N. SIRSE, M. M. TURNER, and A. R. ELLINGBOE

[Physics of Plasmas, 25, 080705, 2018](#)

63. Spatial Symmetry Breaking In Single-Frequency CCP Discharge with Transverse Magnetic Field

SARVESHWAR SHARMA, IGOR D. KAGANOVICH, ALEXANDER V. KHRABROV, PREDHIMAN KAW, ABHIJIT SEN

[Physics of Plasmas, 25, 080704, 2018](#)

64. Development and Characterization of a Helicon Plasma Source

N. SHARMA, M. CHAKRABORTY, N. K. NEOG, and M. BANDYOPADHYAY

[Review of Scientific Instruments, 89, 083508, 2018](#)

65. Optical Emission Spectroscopy Study of Ar–H₂ Plasma at Atmospheric Pressure

SARITA DAS, DEBI PRASAD DAS, CHINMAYA KUMAR SARANGI, BHAGYADHAR BHOI, BARADA KANTA MISHRA and JOYDEEP GHOSH

[IEEE Transactions on Plasma Science, 46, 8411162, 2018](#)

66. Preparation of SiC Nanowires and Nanotubes by Thermal Arc Plasma and study of Parameters Controlling its Growth

JIGAR PATEL, C. BALASUBRAMANIAN, C. SASMAL, A. SATYAPRASAD

[Physica E: Low-Dimensional Systems and Nanostructures, 103, 377, 2018](#)

67. Influence of Obliquely Incident Primary Ion Species on Patterning of CoSi Binary Mixtures: An Experimental Study

BASANTA K. PARIDA, M. RANJAN, S. SARKAR

[Physica B: Condensed Matter, 545, 34, 2018](#)

68. Development of RF Based Capacitively Coupled Plasma System for Tungsten Nano Layer Deposition on Graphite

SACHIN S CHAUHAN, UTTAM SHARMA, JAYSHREE SHARMA, A K SANYASI, J GHOSH, NANDINI YADAVA, K K CHOUDHARY, S K GHOSH

[Materials Research Express, 5, 115020, 2018](#)

69. Morphological Instabilities in Argon Ion Sputtered CoSi Binary Mixtures

B.K. PARIDA, M. RANJAN, S. SARKAR

[Current Applied Physics, 18, 993, 2018](#)

70. RF Design of Passive Active Multijunction (PAM) Launcher for LHCD System of ADITYA-Upgrade Tokamak

YOGESH M.JAIN, P.K. SHARMA, HARISH V. DIXIT, AVIRAJ JADHAV, JULIEN HILLAIRET, MAR CGONICHE, JAGABANDHU KUMAR

[Fusion Engineering and Design, 134, 109, 2018](#)

71. Design Update and Thermal-Hydraulics of LLCB TBM First Wall

DEEPAK SHARMA, PARITOSH CHAUDHURI, S. RANJITH KUMAR, RAJENDRA KUMARA

[Fusion Engineering and Design, 134, 51, 2018](#)

72. Coherent Phase Space Structures in a 1D Electrostatic Plasma using Particle-in-Cell and Vlasov Simulations: A Comparative Study

V. SAINI, S. K. PANDEY, P. TRIVEDI, and R. GANESH

[Physics of Plasmas, 25, 092107, 2018](#)

73. Electron Sheath Evolution Controlled by a Magnetic Field in Modified Hollow Cathode Glow Discharge

R. RANE, S. CHAUHAN, P. BHARATHI, K. NIGAM, P. BANDYOPADHYAY, and S. MUKHERJEE

[Physics of Plasmas, 25, 093509, 2018](#)

74. Nonlinear Dynamics of Relativistically Intense Cylindrical and Spherical Plasma Waves

ARGHYA MUKHERJEE, and SUDIPSENGUPTA

[Physics of Plasmas, 25, 092106, 2018](#)

75. Ion Dynamics in a Magnetized Source-Collector Sheath

S. ADHIKARI, R. MOULICK, and K. S. GOSWAMI

[Physics of Plasmas, 25, 094504, 2018](#)

76. Experimental Investigation of Dynamical Structures Formed Due to a Complex Plasma Flowing Past an Obstacle

S. JAISWAL, M. SCHWABE, A. SEN, and P. BANDYOPADHYAY

[Physics of Plasmas, 25, 093703, 2018](#)

77. Effect of Rolling Temperature on Fracture Properties of INRAFMS at Different Temperatures
M. NANI BABU, ATUL PRAJAPATI, G. SASIKALA, S. K. ALBERT, C. R. DAS, THOMAS PAUL

[Journal of Materials Engineering and Performance, 27, 4871, 2018](#)

78. A Study of the von Neumann Stability Analysis of a Semi-implicit Numerical Method Applied over the Radial Impurity Transport Equation in Tokamak Plasma

AMRITA BHATTACHARYA, PRABHAT MUNSHI, JOYDEEP GHOSH, M. B. CHOWDHURI

[Journal of Fusion Energy, 37, 211, 2018](#)

79. Composition Optimization Strategy Based on Multiple Radiological Responses for Materials in Spatially and Temporally Varying Neutron Fields

PRITI KANTH, SAI CHAITANYA TADEPALLI and P.V. SUBHASH

[Nuclear Fusion, 58, 126019, 2018](#)

80. The New Magnetic Diagnostics in the WEST Tokamak

P. MOREAU, A. LE-LUYER, P. SPUIG, P. MALARD, F. SAINT-LAURENT, J. F. ARTAUD, J. MORALES, B. FAUGERAS, H. HEUMANN, B. CANTONE, M. MOREAU, C. BRUN, R. NOUAILLETAS, E. NARDON, B. SANTRAINE, A. BERNE, P. KUMARI, S. BELSARE

[Review of Scientific Instruments, 10J109, 2018](#)

81. Corrosion Behavior of IN-RAFM Steel with Stagnant Lead-Lithium at 550 °C up to 9000 h

SARADA SREE ATCHUTUNI, HEMANG S. AGRAVAT, J.P. CHAUHAN, E. RAJENDRA KUMAR

[Fusion Engineering and Design, 102, 2018](#)

82. Fabrication and Characterization of W-Cu Functionally Graded Material by Spark Plasma Sintering Process

A.K. CHAUBEY, RAJAT GUPTA, ROHIT KUMAR, BHARAT VERMA, SHAILESH KANPARA, SIVAIAH BATHULA, S.S. KHIRWADKAR, AJAY DHAR

[Fusion Engineering and Design, 135, 24, 2018](#)

83. Laser-Plasma Driven Green Synthesis of Size Controlled Silver Nanoparticles in Ambient Liquid

PARVATHY NANCY, JEMY JAMES, SIVAKUMARAN VALLUVADASAN, RAVI A.V. KUMAR, NANDAKUMAR KALARIKKAL

[Nano-Structures & Nano-Objects, 16, 337, 2018](#)

84. Design of Tangential X-Ray Crystal Spectrometer for Aditya-U Tokamak

K. SHAH, M. B. CHOWDHURI, G. SHUKLA, R. MANCHANDA, K. B. K. MAYYA, K. A. JADEJA, N. A. PABLANT and J.GHOSH

[Review of Scientific Instruments, 89, 10F115, 2018](#)

85. Plasma Rotation Measurement using UV and Visible Spectroscopy on Aditya-U Tokamak

G. SHUKLA, M. B. CHOWDHURI, K. SHAH, R. MANCHANDA, K. B. K. MAYYA, J. GHOSH, and ADITYA-U TEAM

[Review of Scientific Instruments, 89, 10D132, 2018](#)

86. Effect of Ambient Gas Pressure on Nanosecond Laser Produced Plasma on Nickel Thin Film in a Forward Ablation Geometry

JINTO THOMAS, HEM CHANDRA JOSHI, AJAI KUMAR, and REJI PHILIP

[Physics of Plasmas, 25, 103108, 2018](#)

87. Modification of Plasma Flows in Edge and SOL Regions by Influence of Neutral Gas

N. BISAI, SANTANU BANERJEE, and DEEPAK SANGWAN

[Physics of Plasmas, 25, 102503, 2018](#)

88. Orbital altitude dust at Mars, its implication and a prototype for its detection,

J. P. Pabari, S. A. Haider, B. M. Pandya, R. K. Singh, A. Kumar, D. K. Patel, A. Bogavelly

[Planetary and Space Science, 161, 68, 2018](#)

89. Experimental Investigation of Plasma Instabilities by Fourier Analysis in an Electron Cyclotron Resonance Ion Source

SARVESH KUMAR, JYOTSNA SHARMA, PRASHANT SHARMA, SHATENDRA SHARMA, YADUVANSH MATHUR, DEVENDRA SHARMA and MANISH K. KASHYAP

[Physical Review Accelerators and Beams, 21, 093402, 2018](#)

90. Development of Precise Low Value Capacitance Measurement System for Cryogenics Two Phase Flow Application

G.K. SINGH, G. PURWAR, R. PATEL, V.L TANNA, S. PRADHAN

[Journal of Electrical and Electronics Engineering, 11, 27, 2018](#)

91. Stability of Heat Transfer Nanofluids-A Review

SAYANTAN MUKHERJEE, PURNA CHANDRA MISHRA, PARITOSH CHAUDHURI

[ChemBioEng Reviews, 5, 312, 2018](#)

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