

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

2021-2022 (223 Reprint)

1. Radioactivation Analysis of 14 MeV Neutron Generator Facility

H.L. SWAMI, S.VALA, M. ABHANGI, RATNESH KUMAR, C. DANANI, R. KUMAR, R. SRINIVASAN
Fusion Engineering and Design, 165, 112229, April 2021

2. Real-Time Feedback Control System for ADITYA-U Horizontal Plasma Position Stabilisation

ROHIT KUMAR, PRAMILA GAUTAM, SHIVAM GUPTA, R.L.TANNA, PRAVEENLAL EDAPPALA, MINSHA SHAHA, VISMAY RAULJI, K.A.JADEJA, K.M.PATEL, TANMAY MACWAN, RANJANA MANCHANDA, M.B. CHOWDHURI, NANDINI YADAV, KUNAL SHAHA, M.N. MAKWANA, V.BALAKRISHNAN, C.N. GUPTA, SUMAN AICH, Y.C.SAXENA, the ADITYA-U TEAM
Fusion Engineering and Design, 165, 112218, April 2021

3. SERS Based Detection of Dichlorvos Pesticide Using Silver Nanoparticles Arrays: Influence of Array Wavelength/Amplitude

SEBIN AUGUSTINE, K.P. SOORAJ, VIVEK PACHCHIGAR, C. MURALI KRISHNA, MUKESH RANJAN
Applied Surface Science, 544, 148878, April 2021

4. Revisiting the Photochemistry 2, 5-Dihydroxy Benzoic Acid (Gentisic Acid): Solvent and pH Effect

MEENA ADHIKARI, NEERAJ K. JOSHI, HEM C. JOSHI, MOHAN S. MEHATA, HIRDYESH MISHRA, SANJAY PANT
Journal of Physical Organic Chemistry, 34, e4168, April 2021

5. Sticky Islands in Stochastic Webs and Anomalous Chaotic Cross-Field Particle Transport by E x B Electron Drift Instability

D. MANDAL, Y. ELSKENS, X. LEONCINI, N. LEMOINE, F. DOVEIL
Chaos, Solitons & Fractals, 145, 110810, April 2021

6. Finite Electron Temperature Gradient Effects on Blob Formation in the Scrape-Off Layer of a Tokamak Plasma

VIJAY SHANKAR, N. BISAI, SHRISH RAJ and A. SEN
Nuclear Fusion, 61, 066008, April 2021

7. Large Scale Synthesis of Copper Nickel Alloy Nanoparticles with Reduced Compressibility Using Arc Thermal Plasma Process

SUBRAT KUMAR DAS, ARKAPRAVA DAS, MATTIA GABOARDI, SIMONE POLLASTRI, G. D. DHAMALE, C. BALASUBRAMANIAN and BOBY JOSEPH
Scientific Reports, 11, 7629, April 2021

8. Convective Flow Boiling Heat Transfer Enhancement with Aqueous Al₂O₃ and TiO₂ Nanofluids: Experimental Investigation

SAYANTAN MUKHERJEE, SMITA RANI PANDA, PURNA CHANDRA MISHRA and PARITOSH CHAUDHURI
International Journal of Thermophysics, 42, 88, April 2021

9. Development of Cryogenic Extrusion Techniques and Modelling of a Twin Screw Extruder: A Review

PRASHANTH SHIVANOR RAVIKUMAR, SENTHIL KUMAR ARUMUGAM, RANJANA GANGRADEY, SAMIRAN MUKHERJEE, KASTHURIRENGAN SRINIVASAN, SREEJA SADASIVAN, VISHAL GUPTA and MAHESH C. AGGARWAL

Journal of Fusion Energy, 40, 4, April 2021

10. A Novel Quiescent Quasi-Steady State of a Toroidal Electron Plasma

S. KHAMARU, R. GANESH and M. SENGUPTA

Physics of Plasmas, 28, 042101, April 2021

11. Investigation of Surface Properties of EN8, EN24, and EN41B Low Alloy Steel Treated by Active Screen Plasma Nitriding

NAND KUMAR, B. GANGULI, BIDESH ROY and BACHU DEB

Transactions of the Indian Institute of Metals, 74, 799, April 2021

12. Measurement of $^{90}\text{Zr}(n, 2n)^{89}\text{Zr}$ and $^{90}\text{Zr}(n,p)^{90}\text{mY}$ Reaction Cross-Sections in the Neutron Energy Range of 10.95 to 20.02 MeV

MAYUR MEHTA, N. L. SINGH, R. K. SINGH, SIDDHARTH PARASHARI, P. V. SUBHASH, H. NAIK, R. D. CHAUHAN, R. MAKWANA, S. V. SURYANARAYANA, S. MUKHERJEE, A. GANDHI, J. VARMUZA and K. KATOVSKY

Journal of Radioanalytical and Nuclear Chemistry, 328, 71, April 2021

13. On the Resonance Absorption in Laser-Driven Deuterium Cluster

S. S. MAHALIK and M. KUNDU

The European Physical Journal Special Topics, s11734-021-00029-9, April 2021

14. Investigations on Crystalline Perfection, Raman Spectra and Optical Characteristics of Transition Metal (Ru) Co-Doped Mg:LiNbO₃ Single Crystals

M. K. RASEEL RAHMAN, B. RISCOB, RAJEEV BHATT, INDRANIL BHAUMIK, SARVESWARAN GANESAMOORTHY, NARAYANASAMY VIJAYAN, GODAVARTHI BHAGAVANNARAYANA, ASHWINI KUMAR KARNAL, and LEKHA NAIR

ACS Omega, 6, 10807, April 2021

15. Fabrication of Silver-Decorated Graphene Oxide Nano hybrids via Pulsed Laser Ablation with Excellent Antimicrobial and Optical Limiting Performance

PARVATHY NANCY, JIYA JOSE, NITHIN JOY, SIVAKUMARAN VALLUVADASAN, REJI PHILIP, RODOLPHE ANTOINE, SABU THOMAS and NANDAKUMAR KALARIKKAL

Nanomaterials, 11, 880, April 2021

16. Investigation of Recycling and Impurities Influxes in Aditya-U Tokamak Plasmas

NANDINI YADAVA, MALAY BIKAS CHOWDHURI, JOYDEEP GHOSH, RANJANA MANCHANDA, TANMAY MACWAN, NILAM RAMAIYA, ANKUR PANDYA, SRIPATHI PUNCHITHAYA K., ISMAYIL, KUMARPALSINH A. JADEJA, UMESH C. NAGORA, SURYA K. PATHAK, MINSHA SHAH, PRAMILA GAUTAM, ROHIT KUMAR, SUMAN AICH, KAUSHAL M. PATEL, RAKESH L. TANNA, ADITYA-U TEAM

Plasma and Fusion Research, 16, 2402055, April 2021

17. Design of a 3.7 GHz TE₁₀-TE₃₀ Mode Converter Using Stepped Impedance Transformer For CW Applications

YOGESH M. JAIN, SHREY THAKKER, P. K. SHARMA and HARISH V. DIXIT

18. Manufacturing Technologies for Ultra-High-Vacuum-Compatible 10 MW/M² High Heat Flux Components for Application in Fusion Devices

HITESH PATEL, NIRMAL PANDA, NITIN KANOONGO, K. BALASUBRAMANIAN, M. J. SINGH and ARUN CHAKRABORTY

Fusion Science and Technology, 77, 298, May 2021

19. Effect of Parallel Connection Length on the Properties of a Low-Temperature Plasma Confined in a Current-Less Toroidal Device

U. KUMAR, R. GANESH, Y. C. SAXENA, D. RAJU and S. G. THATIPAMULA

Indian Journal of Physics, 95, 989, May 2021

20. Disruption Mitigation Using Ion Cyclotron Wave in ADITYA Tokamak

J. GHOSH, R. L. TANNA, P. K. CHATTOPADHYAY, A. SEN, HARSHITA RAJ, PRAVESH DHYANI, SUMAN DOLUI, S. V. KULKARNI, K. MISHRA, RAJ SINGH, SUNIL KUMAR,

S. B. BHATT, K. A. JADEJA, K. M. PATEL, C. N. GUPTA, MOTI M. MAKWANA, K. SHAH, CHHAYA CHAVDA, V. K. PANCHAL, N. C. PATEL, J. V. RAVAL, SHISHIR PUROHIT,

S. JOISA, C. V. S. RAO, RAJU DANIEL, SAMEER K. JHA, B. K. SHUKLA, E. V. PRAVEENLAL, V. RAULJI, R. RAJPAL, P. K. ATREY, U. NAGORA, R. MANCHANDA, N. RAMAIYA, M. B. CHOWDHURI, R. JHA, Y. C. SAXENA, and R. PAL

Physics of Plasmas, 28, 052501, May 2021

21. Investigation of Physicochemical Properties of Plasma Activated Water and its Bactericidal Efficacy

VIKAS RATHORE, DIVYESH PATEL, SHITAL BUTANI and SUDHIR KUMAR NEMA

Plasma Chemistry and Plasma Processing, 41, 871, May 2021

22. Thermal Management and Simulation Studies of a 200-kW Calorimetric Dummy Load for HE11 Mode at 42 GHz

MAULIK SHAH, AXAT PATEL, CHETAN PRAJAPATI, K. SATHYANARAYAN, PARITOSH CHAUDHURI

Heat Transfer, 50, 2488, May 2021

23. Survival of Expiratory Aerosols in a Room: Study Using a Bi-compartment and Bi-component Indoor Air Mode

SREEKANTH BATHULA, SRINIVASAN ANAND, THASEEM THAJUDEEN, YELIA SHANKARANARAYANA MAYYA, PROBAL CHAUDHURY, CHATURVEDI SHASHANK

Aerosol and Air Quality Research, 21, 200547, May 2021

24. Dynamic Mode Decomposition of Inertial Particle Caustics in Taylor–Green Flow

OMSTAVAN SAMANT, JAYA KUMAR ALAGESHAN, SARVESHWAR SHARMA and ANIMESH KULEY

Scientific Reports, 11, 10456, May 2021

25. Possible Einstein's Cluster Models in Embedding Class one Spacetime

K.N. SINGH, F. RAHAMAN, M. LAISHRAM, R. SHARMA

Modern Physics Letters A, 36, 2150106, May 2021

26. Study of (n, 2n) Reaction Cross Sections for ¹⁰⁷Ag within the Energy Range of 9-22 MeV

R. CHAUHAN, R.K. SINGH, N.L. SINGH, M. MEHTA, R. MAKWANA, S.V. SURYANARAYANA, S. MUKHERJEE, B.K. NAYAK, H. NAIK, J. VARMUZA, K. KATOVSKY

The European Physical Journal Plus, 136, 532, May 2021

27. Numerical and Computational Analysis of Radiation Characteristics of Dielectric Loaded Helical Antenna

A. K. PANDEY, S. K. PATHAK

International Journal of RF and Microwave Computer-Aided Engineering, 31, e22756, May 2021

28. Observations of Visible Argon Line Emissions and its Spatial Profile from Aditya-U Tokamak Plasma

K. SHAH, J. GHOSH, G. SHUKLA, M. B. CHOWDHURI, R. MANCHANDA, N. YADAVA, N. RAMAIYA, K. A. JADEJA, K. M. PATEL, R. L. TANNA, K. B. K. MAYYA and ADITYA-U TEAM

Review of Scientific Instruments, 92, 053548, May 2021

29. Effect of Porosity on Thermal Conductivity of Li₂TiO₃ Ceramic Compact

AROH SHRIVASTAVA, RIDDHI SHUKLA, PARITOSH CHAUDHURI

Fusion Engineering and Design, 166, 112318, May 2021

30. Effect of Collisions on the Plasma Sheath in the Presence of an Inhomogeneous Magnetic Field

K. DEKA, S. ADHIKARI, R. MOULICK, S. S. KAUSIK and B. K. SAIKIA

Physica Scripta, 96, 075606, May 2021

31. Charged Particle Transport across an Obstacle in a Non-Flowing Partially Magnetized Plasma Column

SATADAL DAS and S. K. KARKARI

Plasma Sources Science and Technology, 30, 055008, May 2021

32. SoC-Based Automated Diagnostic Instrument for FMCW Reflectometry Applications

GIBIN CHACKO GEORGE, J. J. U. BUCH, AMALIN PRINCE A, and SURYA K. PATHAK

IEEE Transactions on Instrumentation and Measurement, 70, 2004411, May 2021

33. Void Fraction Measurement System for Steady State Horizontal Two Phase Liquid Nitrogen Flow

G.K. SINGH, G. PURWAR, R. PATEL, H. NIMAVAT, R. SHARMA, R. PANCHAL, V.L.TANNA

Journal of Electrical and Electronics Engineering, 14, 53, May 2021

34. Study and Characterization of Potential Adsorbent Materials for the Design of the Hydrogen Isotopes Extraction and Analysis System

A. SIRCAR, V. G. DEVI, D. YADAV, J. S. MISHRA, R. J. G. GANGRADEY, R. TOMAR, P. B. DHORAJIYA, P. DAVE

Fusion Engineering and Design, 166, 112308, May 2021

35. Nanoindentation and Structural Studies of MgO-Doped Congruent LiNbO₃ Single Crystals

M. K. RASEEL RAHMAN, B. RISCOB, BUDHENDRA SINGH, R. BHATT, INDRANIL BHAUMIK, S.

GANESAMOORTHY, N. VIJAYAN, A. K. KARNAL, IGOR BDIKIN, LEKHA NAIR

Materials Chemistry and Physics, 264, 124425, May 2021

36. Design of Double Barrier Ceramic Radio Frequency Vacuum Window

AKHIL JHA, P. AJESH, ROHIT ANAND, PARESH KUMAR VASAVA, RAJESH TRIVEDI and APARAJITA MUKHERJEE

Defence Science Journal, 71, 324, May 2021

37. Characterisation of Induced Vessel Current during Mirnov Probe Calibration Experiment in ADITYA-U Tokamak

ROHIT KUMAR, J. GHOSH, R. L. TANNA, SUMAN AICH, TANMAY MACWAN, S. K. JHA, ADITYA-U TEAM
Fusion Engineering and Design, 166, 112320, May 2021

38. Summary of the IAEA Technical Meeting on Plasma Disruptions and Their Mitigation

INDRANIL BANDYOPADHYAY, MATTEO BARBARINO, AMITAVA BHATTACHARJEE, NICHOLAS EIDIETIS, ALEXANDER HUBER, AKIHIKO ISAYAMA, JAYHYUN KIM, SERGEY KONOVALOV, MICHAEL LEHNEN, ERIC NARDON, GABRIELLA PAUTASSO, CRISTINA REA, CARLO SOZZI, FABIO VILLONE and LONG ZENG

Nuclear Fusion, 61, 077001, June 2021

39. Cavitation and Charge Separation in Laser-Produced Copper and Carbon Plasma in Transverse Magnetic Field

NARAYAN BEHERA, AJAI KUMAR and R. K. SINGH

Plasma Research Express, 3,025011, June 2021

40. Thermo-Hydraulic Study of MgB₂ Superconducting Feeder for SST-1 Tokamak

NITIN BAIRAGI, VIPUL L. TANNA

IEEE Transactions on Applied Superconductivity, 31, 4801905, June 2021

41. Numerical Optimization for Fluid Flow in Turboexpander Wheel of Helium Liquefaction Plant

SWAPNIL NARAYAN RAJMANE, MANOJ KUMAR GUPTA, ANANTA KUMAR SAHU

Heat Transfer, 50, 3564, June 2021

42. Control of Plasma Parameters by Hot Ionizing Electrons Using a Mesh Grid

MRINAL KR MISHRA, ARINDAM PHUKAN and MONOJIT CHAKRABORTY

Brazilian Journal of Physics, 51, 625, June 2021

43. Design Updates for Helium Cooling System of Indian LLCB Blanket

B. K. YADAV, K. T. SANDEEP, A. GANDHI, A. SARASWAT, D. SHARMA, P. CHAUDHURI

Fusion Engineering and Design, 167, 112342, June 2021

44. Radial Control of Plasma Uniformity and Electron Temperature by External Plate Biasing In a Back Diffused Partially Magnetized Plasma

SATADAL DAS and SHANTANU K KARKARI

Plasma Research Express, 3, 025013, June 2021

45. Comparative Study of Single Crystal (SC)-Diamond And 4H-Sic Bulk Radiation Detectors for Room Temperature Alpha Spectroscopy

S. MOHAPATRA, M. ABHANGI, S. VALA, P. KUMAR SAHU, S. RATH and N.V.L. NARASIMHA MURTY

Journal of Instrumentation, 16, P06020, June 2021

46. Deposition of Tin and TiAlN Thin Films on Stainless Steel Tubes by a Cylindrical Magnetron Sputtering Method

K. TRIVEDI, R. RANE, A. JOSEPH and S. ARYA

Materials Performance and Characterization, 10, 473, June 2021

47. Effect of In-Plane Shear Flow on the Magnetic Island Coalescence Instability
JAGANNATH MAHAPATRA, ARKAPRAVA BOKSHI, RAJARAMAN GANESH and ABHIJIT SEN
Physics of Plasmas, 28, 072103, June 2021
48. Impurity Toroidal Rotation Profile Measurement using upgraded High-Resolution Visible Spectroscopic Diagnostic on ADITYA-U Tokamak
G. SHUKLA, M. B. CHOWDHURI, K. SHAH, R. MANCHANDA, N. RAMAIYA, R. L. TANNA, K. B. K. MAYYA, J. GHOSH and ADITYA-U TEAM
Review of Scientific Instruments, 92, 063517, June 2021
49. Phase of Particle-Level Velocity Perturbations Determines the Fate of Rayleigh–Benard Convection Cells in 2D Yukawa Liquids
PAWANDEEP KAURA and RAJARAMAN GANESH
Physics of Plasmas, 28, 063701, June 2021
50. Influence of Treatment Time and Temperature on Surface Property of Active Screen Plasma-Nitrided EN24 Low Alloy Steel
NAND KUMAR, BIDESH ROY, B. GANGULI and BACHU DEB
Transactions of the Indian Institute of Metals, 74, 2027, June 2021
51. Lab view-FPGA-Based Real-Time Data Acquisition System for ADITYA-U Heterodyne Interferometry
KIRAN PATEL, UMESH NAGORA, HEM C. JOSHI, SURYA PATHAK, KUMARPALSINH A. JADEJA, KAUSHAL PATEL and RAKESH L. TANNA
IEEE Transactions on Plasma Science, 49, 1891, June 2021
52. Optimization of the Metallic Vessel-Wall Effect on the Magnetic Diagnostics Calibration in ADITYA-U Tokamak
ROHIT KUMAR, SUMAN AICH, R. L. TANNA, PRAVEENLAL EDAPPALA, PRAVEENA KUMARI, S. K. JHA, TANMAY MACWAN, DEV KUMAWAT, M. V. GOPALAKRISHNA, J. GHOSH, D. RAJU
Fusion Engineering and Design, 167, 112339, June 2021
53. Effects of Sonication Period on Colloidal Stability and Thermal Conductivity of SiO₂-Water Nanofluid: An Experimental Investigation
SAYANTAN MUKHERJEE, PURNA CHANDRA MISHRA, SHANTA CHAKRABARTY and PARITOSH CHAUDHURI
Journal of Cluster Science, s10876-021-02100-w, June 2021
54. Experimental Investigation of Thermal Properties of Materials used to Develop Cryopump
R. GANGRADEY, J. MISHRA, S. MUKHERJEE, P. NAYAK, P. PANCHAL, J. AGARWAL and V. GUPTA
Fusion Science and Technology, 77, 333, July 2021
55. Li₂TiO₃ Pebble Fabrication by Freeze Granulation & Freeze Drying Method
AROH SHRIVASTAVA, TEJAS KUMAR, RIDDHI SHUKLA, PARITOSH CHAUDHURI
Fusion Engineering and Design, 168, 112411, July 2021
56. Role of Gas Flow on Plasma Stream Dynamics in a Pulsed Plasma Accelerator

S. BORTHAKUR, A. AHMED, S. SINGHA, N. K. NEOG, T. K. BORTHAKUR
Fusion Engineering and Design, 168, 112400, July 2021

57. Parametric Investigation for Modulation Instability of Ion Wave in Negative Ion Plasma Sources
PALLABI PATHAK and M BANDYOPADHYAY
Physica Scripta, 96, 115601, July 2021

58. A Nonlinear Simulation Study of the Effect of Toroidal Rotation on RMP Control of ELMs
D. CHANDRA, A. SEN and A. THYAGARAJA
Nuclear Fusion, 61, 096012, July, 2021

59. Measurement of Cross Sections for Flux Monitor Reactions using Quasi-Monoenergetic Neutrons
VIBHUTI VASHI, RAJNIKANT MAKWANA, S. MUKHERJEE, B. K. SONI, M. H. MEHTA, S. PARASHARI, R. K. SINGH, R. CHAUHAN, S. V. SURYANARAYANA, B. K. NAYAK, S. C. SHARMA, H. NAIK, N. L. SINGH and T. N. NAG
The European Physical Journal Plus, 136, 746, July 2021

60. Development of Electronic Record-Keeping Software for Remote Participation in Large Volume Plasma Device Upgrade using Angular 2 and Nodejs Web Technologies
SUGANDHI R., SOUMYA V., JHA M., SANYASI A.K., ADHIKARI A. and AWASTHI L.M.
Review of Scientific Instruments, 92, 075102, July 2021

61. Thermodynamics and Self-Organization of Strongly Coupled Coulomb Clusters: An Experimental Study
M. G. HARIPRASAD, P. BANDYOPADHYAY, GARIMA ARORA, A. SEN
Physics of Plasmas, 28, 073702, July 2021

62. Dust-Ion-Acoustic Solitary Wave Structure in Magnetized Plasma with Nonthermally Distributed Electrons and Positrons
B. BORO, A. N. DEV, R. SARMA, B. K. SAIKIA and N. C. ADHIKARY
Plasma Physics Reports, 47, 557, July 2021

63. On the Road to ITER NBIS: SPIDER Improvement after First Operation and MITICA Construction Progress
V. TOIGO, D. MARCUZZI, G. SERIANNI, M. SINGH, A. CHAKRABORTY, H. PATEL, N. P. SINGH et. al.
Fusion Engineering and Design, 168, 112622, July 2021

64. Determination of Mueller Matrix for Metal Substrates by Stokes Polarimetry
ASHA ADHIYA, ANKUR PANDYA and RAJWINDER KAUR
IEEE Transactions on Instrumentation and Measurement, 70, 6009407, July 2021

65. Mechanical and Metallurgical Properties of CO₂ Laser Beam INCONEL 625 Welded Joints
HARINADH VEMANABOINA, EDISON GUNDABATTINI, SURESH AKELLA, A. C. UMA MAHESHWER RAO, RAMESH KUMAR BUDDU, PAOLO FERRO, and FILIPPO BERTO
Applied Sciences, 11, 7002, July 2021

66. Study of Weldability for Aluminide Coated Steels through A-TIG Welding Process
A. ZALA, N. JAMNAPARA, V. BADHEKA, C. SASMAL, S. SAM, and M. RANJAN

Materials Performance and Characterization, 11, July 2021

67. Experimental Studies on Applications of Atmospheric Pressure Air Plasma for Eco-friendly Processing of Textiles and Allied Material

NISHA CHANDWANI, VISHAL JAIN, PURVI DAVE, HEMEN DAVE, P. B. JHALA and SUDHIR K. NEMA
Journal of The Institution of Engineers (India): Series E, s40034-021-00219-z, July 2021

68. Design Development and Testing of Mutual Inductance Type Level Sensor for Molten Lead-Lithium Alloy

K. K. RAJAN, B. ARUNA, S. ANJU, P. R. PEDADA, S. VERMA, R. BHATTACHARYAY
Fusion Engineering and Design, 168, 112650, July 2021

69. Axial Force Analysis using Half-Etched FBG Sensor

KOUSTAV DEY, V.D.R. PAVAN, RAMESH BUDDU, SOURABH ROY
Optical Fiber Technology, 64, 102548, July 2021

70. Thermo-Structural Analysis of ITER Divertor for Normal Operating Conditions

VINAY MENON, DEEPU KRISHNAN, JAYESH PARMAR, SHOBHIT TRAPASYA, SAMEER KHIRWADKAR
Fusion Engineering and Design, 180, 113152, July 2022

71. Towards Understanding Reactor Relevant Tokamak Pedestals

C.J. HAM, A. BOKSHI, D. BRUNETTI, G. BUSTOS RAMIREZ, B. CHAPMAN, J.W. CONNOR, D. DICKINSON, A.R. FIELD, L. FRASSINETTI, A. GILLGREN, J.P. GRAVES T.P. KIVINIEMI, S. LEERINK, B. MCMILLAN, S. NEWTON, S. PAMELA, C.M. ROACH, S. SAARELMA, J. SIMPSON, S.F. SMITH, E.R. SOLANO, P. STRAND, A.J. VIRTANEN and THE JET CONTRIBUTORS
Nuclear Fusion, 61, 096013, August 2021

72. Gas-Puff Induced Cold Pulse Propagation in ADITYA-U Tokamak

TANMAY MACWAN, HARSHITA RAJ, KAUSHLINDER SINGH, SUMAN DOLUI, SHARVIL PATEL, ANKIT KUMAR, P. GAUTAM, J. GHOSH, R.L. TANNA, K.A. JADEJA, K.M. PATEL, ROHIT KUMAR, SUMAN AICH, V.K. PANCHAL, UMESH NAGORA, M.B. CHOWDHURI, R. MANCHANDA, NANDINI YADAVA, RITU DEY, KIRAN PATEL,
J. RAVAL, S.K. PATHAK, M.K. GUPTA, K. TAHILIANI, P.K. CHATTOPADHYAY, A. SEN, Y.C. SAXENA, R. PAL and ADITYA-U TEAM1
Nuclear Fusion, 61, 096029, August 2021

73. Neutron and X-Ray Emission from a Cylindrical Inertial Electrostatic Confinement Fusion Device and their Applications

D. BHATTACHARJEE, N. BUZARBARUAH and S. R. MOHANT
Journal of Applied Physics, 130, 053302, August 2021.

74. Collective Excitations of Rotating Dusty Plasma under Quasi-Localized Charge Approximation of Strongly Coupled Systems

PRINCE KUMAR and DEVENDRA SHARMA
Physics of Plasmas, 28, 083704, August 2021

75. Concise Characterization of Cold Atmospheric Pressure Helium Plasma Jet

G. VEDA PRAKASH, NARAYAN BEHERA, KIRAN PATEL and AJAI KUMAR

AIP Advances, 11, 085329, August 2021

76. Current-Voltage Characteristics of Manganite Based P–N Interfaces: Role of Swift Heavy Ion Irradiation and Defect Annihilation

ALPA ZANKAT, KEVAL GADANI, BHARGAV RAJYAGURU, KHUSHAL SAGAPARIYA, VIVEK PACHCHIGAR, M. RANJAN, K. ASOKAND, P. S. SOLANKI, N. A. SHAH, D. D. PANDYA

Physica B: Condensed Matter, 614, 413013, August 2021

77. Unused to useful: Recycling Plasma Chamber Coated Waste Composite of ZnO and α -Fe₂O₃ into an Active Material for Sustainable Waste-Water Treatment

BORIS WAREPPAM, N. JOSEPH SINGH, SOUMEE CHAKRABORTY, NG. AOMOA, M. KAKATI, A.C. DE OLIVEIRA, V.K. GARG, K. PRIYANANDA SINGH, SUELEN BARG, SUBRATA GHOSH, L. HEROJIT SINGH

Chemical Engineering Journal Advances, 7, 100120, August 2021

78. Self-Cleaning and Bouncing Behaviour of Ion Irradiation Produced Nanostructured Superhydrophobic PTFE Surfaces

VIVEK PACHCHIGAR, MUKESH RANJAN, K.P. SOORAJ, SEBIN AUGUSTINE, DEVILAL KUMAWAT, KUMUDNI TAHILIANI, SUBROTO MUKHERJEE

Surface and Coatings Technology, 420, 127331, August 2021

79. Development of Synthetic Diagnostics for ITER First Plasma Operation

J. SINHA, P. C. DE VRIES, L. ZABEO, E. VESHCEV, S. P. PANDYA, A. SIRINELLI, A. PIRONTI, G. VAYAKIS, R. A. PITTS, S. D. PINCHES, Y. GRIBOV and X. BONNIN

Plasma Physics and Controlled Fusion, 63, 084002, August 2021

80. Supercritical Helium Cold Circulators for Nuclear Fusion Machines: A Comparative Overview of Different Hydrodynamic Design Approaches

JOTIRMOY DAS, VIKAS J. LAKHERA, BISWANATHSARKAR

Fusion Engineering and Design, 169, 112537, August 2021

81. Investigations into Growth of Whistlers with Energy of Energetic Electrons

A K SANYASI, PRABHAKAR SRIVASTAV, L M AWASTHI, P K SRIVASTAVA, R SUGANDHI, D SHARMA

Plasma Physics and Controlled Fusion, 63,085008, August 2021

82. Pressure Drop Measurements Performed on a Cable in Conduit Conductor (CICC) at a new Facility Developed to Study Thermo-Hydraulic Characterization

HITENSINH VAGHELA, BISWANATH SARKAR, VIKAS LAKHERA

IEEE Transactions on Applied Superconductivity, 31, 9500605, August 2021

83. Friction Welding of Dissimilar Joints Copper-Stainless Steel Pipe Consist of 0.06 Wall Thickness to Pipe Diameter Ratio

HARDIK D.VYAS, KUSH P. MEHTA, VISHVESH BADHEKA, BHARAT DOSHI

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