

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

2023-2024 (176 Reprint)

1. Recovery of Electromagnetic Coils Insulation under Varying Conditions in ADITYA-U Tokamak
ROHIT KUMAR, J. GHOSH, R.L. TANNA, SUMAN AICH, TANMAY MACWAN, ADITYA-U TEAM
Fusion Engineering and Design, 189, 113481, April 2023
2. 8.56-GHz Quasi-Optical Launcher System with Incident-Mode Selectivity on the QUEST Spherical Tokamak
H. IDEI, M. SAKAGUCHI, K. MISHRA, T. ONCHI, R. IKEZOE, O. WATANABE, Y. TANAKA, T. SAITO, T. IDO, K. HANADA
Fusion Engineering and Design, 189, 113479, April 2023
3. Magnetic Field Induced Electron Temperature Inhomogeneity Effects on Discharge Properties in Cylindrical Capacitively Coupled Plasmas
SWATI DAHIYA, PAWANDEEP SINGH, SATADAL DAS, NISHANT SIRSE, SHANTANU KUMAR KARKARI
Physics Letters A, 468, 128745, April 2023
4. Uniform Plasma Generation with Filament Assisted DC Discharge in a Linear Plasma Device
DIBYAJYOTI BORA, ARITRA TARAFDER, SUBIR BISWAS, MALAY BIKAS CHOWDHURI and JOYDEEP GHOSH
Physica Scripta, 98, 045618, April 2023
5. Study of Plasma Sheath in the Presence of Dust Particles in a Magnetic Mirror-Like Field Configuration
K. DEKA, G. SHARMA, R. PAUL, R. MOULICK, S. ADHIKARI, S. S. KAUSIK, B.K. SAIKIA
Physica Scripta, 98, 045608, April 2023
6. Hairpin Probe Assisted Saturation Current Ratio Method to Determine Plasma Electronegativity
PAWANDEEP SINGH, SWATI DAHIYA, AVNISH KUMAR PANDEY and SHANTANUKUMAR KARKARI
Plasma Sources Science and Technology, 32, 045013, April 2023
7. Confinement Controlled Dynamical Structural Rearrangement in a Quasi-2D Dusty Plasma Crystal
SWARNIMA SINGH, P. BANDYOPADHYAY, KRISHAN KUMAR, A. SEN
Physics of Plasmas, 30, 043706, April 2023
8. SITAR: A Code for ICRH Antenna-Plasma Coupling
ASIM KUMAR CHATTOPADHYAY
IEEE Transactions on Plasma Science, 51, 1188, April 2023
9. Spatial Mapping of Low Pressure Cluster Jets using Rayleigh Scattering
MILAAN PATEL, B.R. GEETHIKA, JINTO THOMAS, HEM JOSHI
Scientific Reports, 13, 6338, April 2023
10. Ion-Driven Destabilization of a Toroidal Electron Plasma - A 3D3V PIC Simulation
S. KHAMARU, R. GANESH, M. SENGUPTA
Physics of Plasmas, 30, 042107, April 2023

11. Transition of a 2D Crystal to a Non-Equilibrium Two-Phase Coexistence State
SWARNIMA SINGH, P. BANDYOPADHYAY, KRISHAN KUMAR, M. G. HARIPRASAD, S. ARUMUGAM, A. SEN
Physics of Plasmas, 30, 043704, April 2023
12. Effect of Positive Polarity in an Inertial Electrostatic Confinement Fusion Device: Electron Confinement, X-Ray Production, and Radiography
DARPAN BHATTACHARJEE, SMRUTI RANJAN MOHANTY and SAYAN ADHIKARI
Fusion Science and Technology, 79, 671, April 2023
13. Thermostructural Analysis of Large Cryopumping Test Facility
HEMANG S. AGRAVAT, SAMIRAN S. MUKHERJEE, VISHAL GUPTA, PARESH PANCHAL, PRATIK NAYAK, JYOTI SHANKAR MISHRA and RANJANA GANGRADEY
Fusion Science and Technology, 79, 683, April 2023
14. A Single-Step Plasma Method for Rapid Production of 2D, Ferromagnetic, Surface Vacancy-Engineered MoO₃-X nanomaterials, for Photothermal Ablation of Cancer
MIZANUR RAHMAN, DEEPAK B PEMMARAJU, UPADHYAYULA SURYANARAYANA MURTY, SARAT PHUKAN, UDAY P DESHPANDE, VASANT SATHE and MAYUR KAKATI
Nanotechnology, 34, 195601, May 2023
15. Neutronic Simulation of Medical Radioisotope ⁹⁹Mo and ¹⁷⁷Lu Production in IPR 14 MeV Neutron Generator Facility
H. L. SWAMI, A. SAXENA, S. VALA, M. ABHANGI, RATNESH KUMAR, RAJESH KUMAR
Applied Radiation and Isotopes, 195, 110743, May 2023
16. Experimental Investigation of Rarefied Flows through Supersonic Nozzles
MILAAN PATEL, JINTO THOMAS, HEM CHANDRA JOSHI
Vacuum, 211, 111909, May 2023
17. Synthesis of the Chemically Durable Glass-Ceramic Matrix for Radioactive Waste Immobilisation
RITU KUMARI PILANIA, NIDHI PATHAK, MAHESH SAINI, KANDATHIL PARAMBIL SOORAJ, MUKESH RANJAN, CHARU LATA DUBE
Ceramics International, 49, 15931, May 2023
18. Gyrokinetic Simulations of Electrostatic Microturbulence in ADITYA-U Tokamak
TAJINDER SINGH, DEEPTI SHARMA, TANMAY MACWAN, SARVESHWAR SHARMA, JOYDEEP GHOSH, ABHIJIT SEN, ZHIHONG LIN and ANIMESH KULEY
Nuclear Fusion, 63, 056008, May 2023
19. Optimization of Input Parameters of ANN-Driven Plasma Source through Nature-Inspired Evolutionary Algorithms
VIPIN SHUKLA, MAINAK BANDYOPADHYAY
Intelligent Systems with Applications, 18, 200200, May 2023
20. Influence of γ 'N and ϵ 'N Phases on the Properties of AISI 304L after Low-Temperature Plasma Nitrocarburizing

JEET VIJAY SAH, PRAVIN KUMARI DWIVEDI, SUBROTO MUKHERJEE, GHANSHYAM JHALA and ALPHONSA JOSEPH

Journal of Vacuum Science & Technology A, 41, 033101, May 2023

21. Secondary Electron Emission and Collisional Effects in a Two-Electron Temperature Plasma Sheath
GUNJAN SHARMA, RUPALI PAUL, KISHOR DEKA, RAKESH MOULICK, SAYAN ADHIKARI, SIDDHARTHA SANKAR KAUSIK, BIPUL KUMAR SAIKIA

Contributions to Plasma Physics, 63, e202300020, May 2023

22. Experimental and Theoretical Study of the $^{65}\text{Cu}(n,p)^{65}\text{Ni}$ Reaction Cross Section from Reaction Threshold up to 25 MeV
R. K. SINGH, N. L. SINGH, MAYUR MEHTA, RAKESH CHAUHAN, H. KUMAWAT, RAJNIKANT MAKWANA, S. V. SURYANARAYANA, B. K. NAYAK, H. NAIK, JAN VARMUZA, and K. KATOVSKY

Physical Review C, 107, 054607, May 2023

23. Design, Development, and Analysis of 1 to 4, Anti-Phase in-Line RF Power Splitter for Low-Frequency ISM Band Applications

CHIRAG SENJALIYA, SHANTANU KUMAR KARKARI

AIP Advances, 13, 055001, May 2023

24. Selective Generation of Reactive Oxygen Species in Plasma-Activated Water using Co_2 Plasma
VIKAS RATHORE, SUDHIR KUMAR NEMA

Journal of Vacuum Science & Technology A, 41, 043001, May 2023

25. Application of Similarity Theory to Predict Operational Characteristics of a DC Plasma Torch Under Low-Pressure Condition

RAM KRUSHNA MOHANTA, DEVILAL KUMAWAT, G. RAVI and KUMUDNI TAHILIANI

The European Physical Journal D, 77, 89, May 2023

26. Study of Physico-Chemical and Antibacterial Properties of DBD Plasma Treated Ahimsa Silk Coated With Natural Active Agent

MUMAL SINGH, MONA VAJPAYEE, LALITA LEDWANI, HEMEN DAVE and SUDHIR K NEMA

Physica Scripta, 98, 065001, June 2023

27. Tritium-Titanium Target Degradation due to Deuterium Irradiation for DT Neutron Production

MAYANK RAJPUT, H L SWAMI, SUDHIRSINH VALA, M ABHANGI, R KUMAR and RAJESH KUMAR

Nuclear Fusion, 63, 066033, June 2023

28. 3D Thermo-Fluid MHD Simulation in a Complex Flow Geometry

A. PATEL, R. BHATTACHARYAY

Fusion Engineering and Design, 191, 113558, June 2023

29. Lane Formation in 3D Driven Pair-Ion Plasmas: I Parallel External Forcing

VISHAL KUMAR PRAJAPATI, SWATI BARUAH and RAJARAMAN GANESH

Journal of Plasma Physics, 89, 905890301, June 2023

30. Lane Formation in 3D Driven Pair-Ion Plasmas: II Non-Parallel External Forcing

VISHAL KUMAR PRAJAPATI, SWATI BARUAH and RAJARAMAN GANESH

Journal of Plasma Physics, 89, 905890302, June 2023

31. Test Results of a Prototype HTS Current Lead With MgB₂ and NbTi Superconducting Joints
NITIN BAIRAGI, VIPUL L. TANNA, HIREN NIMAVAT, DASHRATH SONARA, ROHITKUMAR PANCHAL, ATUL GARG, GAURANG MAHESURIA, RAKESHKUMAR PATEL, DIKENS CHRISTIAN, PRADIP PANCHAL, GAURAV PURWAR, UPENDRA PRASAD and RAJU DANIELIEEE Transactions on Applied Superconductivity, 33, 4801408, June 2023

32. Anisotropic Electrical Properties of 200MeV Ag⁺15 Ion Irradiated Manganite Films
BHAGYASHREE UDESHI, BHARAVI HIRPARA, SUKRITI HANS, M. RANJAN, M.R. GONAL, K. ASOKAN, R.K. TRIVEDI, A.D. JOSHI, P.S. SOLANKI, N.A. SHAH
Materials Chemistry and Physics, 301, 127688, June 2023

33. Behavior of Ion Acoustic Solitons in A Two-Electron Temperature Plasma of a Multi-Pole Line Cusp Plasma Device
ZUBIN SHAIKH, A. D. PATEL, P. K. CHATTOPADHYAY, JOYDEEP GHOSH, H. H. JOSHI and N. RAMASUBRAMANIAN
AIP Advances, 13, 065021, June 2023

34. Effect of Ambient Gas on Grain Growth of CZTS Layer: Study on Device Efficiency
SAGAR AGRAWAL, C. BALASUBRAMANIAN and SUBROTO MUKHERJEE
Journal of Materials Science: Materials in Electronics, 34, 1387, June 2023

35. Argon, Neon, and Nitrogen Impurity Transport in the Edge and SOL Regions of a Tokamak
SHRISH RAJ, N. BISAI, VIJAY SHANKAR and A. SEN
Physics of Plasmas, 30, 062302, June 2023

36. Variation in Defects and Properties in Composite of ZnO and α -Fe₂O₃ for Sustainable Wastewater Treatment
BORIS WAREPPAM, K. PRIYANANDA SINGH, N. JOSEPH SINGH; SUBRATA GHOSH, N. AOMOA, V. K. GARG, A. C. OLIVEIRA and L. HEROJIT SINGH
Journal of Applied Physics, 133, 235305, June 2023

37. Impact of Edge Biasing On the Cross-Field Transport and Power Spectra
VIJAY SHANKAR, N. BISAI, SHRISH RAJ and A. SEN
Physics of Plasmas, 30, 062301, June 2023

38. Simulation of Silicon Etching in NF₃ Plasma Reactor
H L SWAMI, V MEHTA, YOGENDRA KUMAR, CHETAN JARIWALA and RAJESH KUMAR
Pramana - Journal of Physics, 97, 101, June 2023

39. Heat Transfer and Fluid Flow Analysis of Pebble Bed and Its Verification with Artificial Neural Network
CHIRAG SEDANI, PARITOSH CHAUDHURI, MANOJ KUMAR GUPTA
Nuclear Materials and Energy, 35, 101439, June 2023

40. Theory of Plasma Blob Formation and its Numerical and Experimental Validations
N. BISAI, SANTANU BANERJEE, S.J. ZWEBEN and A. SEN

41. Behavior of Ion Acoustic Solitons in a Two-Electron Temperature Plasma of a Multi-Pole Line Cusp Plasma Device (MPD)

ZUBIN SHAIKH, A. D. PATEL, P. K. CHATTOPADHYAY, JOYDEEP GHOSH, H. H. JOSHI, N. RAMASUBRAMANIAN

AIP Advance, 13, 065021, June 2023

42. Lessons Learned after Three Years of SPIDER Operation and the First MITICA Integrated Tests

D. MARCUZZI, V. TOIGO, M. BOLDRIN, G. CHITARIN, S. DAL BELLO, L. GRANDO, A. LUCHETTA, R. PASQUALOTTO, M. PAVEI, G. SERIANNI, L. ZANOTTO, R. AGNELLO, P. AGOSTINETTI, M. AGOSTINI, D. APRILE, M. BARBISAN, M. BATTISTELLA, G. BERTON, M. BIGI, M. BROMBIN, V. CANDELA, V. CANDELORO, A. CANTON, R. CASAGRANDE, C. CAVALLINI, R. CAVAZZANA, L. CORDARO, N. CRUZ, M. DALLA PALMA, M. DAN, A. DE LORENZI, R. DELOGU, M. DE MURI, M. DE NARDI, S. DENIZEAU, M. FADONE, F. FELLIN, A. FERRO, E. GAIO, C. GASPARRINI, F. GNESOTTO, P. JAIN, A. LA ROSA, D. LOPEZ-BRUNA, R. LORENZINI, A. MAISTRELLO, G. MANDUCHI, S. MANFRIN, N. MARCONATO, I. MARIO, G. MARTINI, R. MILAZZO, T. PATTON, S. PERUZZO, N. PILAN, A. PIMAZZONI, C. POGGI, N. POMARO, B. POURADIER-DUTEIL, M. RECCHIA, A. RIGONI-GAROLA, D. RIZZETTO, A. RIZZOLO, F. SANTORO, E. SARTORI, B. SEGALINI, A. SHEPHERD, M. SIRAGUSA, P. SONATO, A. SOTTOCORNOLA, E. SPADA, S. SPAGNOLO, M. SPOLAORE, C. TALIERCIO, P. TINTI, P. TOMSIČ, L. TREVISAN, M. UGOLETTI, M. VALENTE, M. VALISA, F. VERONESE, M. VIGNANDO, P. ZACCARIA, R. ZAGORSKI, B. ZANIOL, M. ZAUPA, M. ZUIN, M. CAVENAGO, D. BOILSON, C. ROTTI, H. DECAMPS, F. GELI, A. SHARMA, P. VELTRI, J. ZACKS, M. SIMON, F. PAOLUCCI, A. GARBUGLIA, D. GUTIERREZ, A. MASIELLO, G. MICO, C. LABATE, P. READMAN, E. BRAGULAT, L. BAILLY-MAITRE, G. GOMEZ, G. KOUZMENKO, F. ALBAJAR, M. KASHIWAGI, H. TOBARI, A. KOJIMA, M. MURAYAMA, S. HATAKEYAMA, E. OSHITA, T. MAEJIMA, N. SHIBATA, Y. YAMASHITA, K. WATANABE, N.P. SINGH, M.J. SINGH, H. DHOLA, U. FANTZ, B. HEINEMANN, C. WIMMER, D. WUNDERLICH, K. TSUMORI, G. CROCI, G. GORINI, A. MURARO, M. REBAI, M. TARDOCCHI, L. GIACOMELLI, D. RIGAMONTI, F. TACCOGNA, D. BRUNO, M. RUTIGLIANO, S. LONGO, S. DEAMBROSIS, E. MIORIN, F. MONTAGNER, A. TONTI, F. PANIN

Fusion Engineering and Design, 191, 113590, June 2023

43. Synthetic Data Generation using Generative Adversarial Network for Tokamak Plasma Current Quench Experiments

BHRUGU DAVE, SARTHAK PATEL, RISHI SHIVANI, SHISHIR PUROHIT, BHASKAR CHAUDHURY

Contributions to Plasma Physics, 63, e202200051, June-July 2023

44. Revisiting Kinematic Fast Dynamo in Three-Dimensional Magnetohydrodynamic plasmas: Dynamo Transition from Non-Helical To Helical Flows

SHISHIR BISWAS and RAJARAMAN GANESH

Physica Scripta, 98, 075607, July 2023

45. Design, Analysis, Fabrication and Testing of 100 kV, 100mA DC Full-Wave Voltage Multiplier (FWVM) Modular Unit for Accelerator Power Supply

URMIL THAKER, SANTOSH C. VORA, AMARDAS A, AMAL S., KUMAR SAURABH, ARITRA CHAKRABORTY, PAUL CHRISTIAN, ASHOK MANKANI, UJJWAL BARUAH

Fusion Engineering and Design, 192, 113612, July 2023

46. Characterizing a Ka-Band FMCW Reflectometer

J.J.U. BUCH and S.K. PATHAK

Journal of Instrumentation, 18, P07022, July 2023

47. Systematic Study of (p, n) and (p, 2n) Reactions on ^{110}Cd

VIBHUTI VASHI, RAJNIKANT MAKWANA, B. QUINTANA, M. H. MEHTA, R.K. SINGH, B.K. SONI, R. CHAUHAN, S. MUKHERJEE, M. ABHANGI, S. VALA, N.L. SINGH, G.B. PATEL, S.V. SURYANARAYANA, B.K. NAYAK, S.C. SHARMA, T.N. NAG, Y. KAVUN

Radiation Physics and Chemistry, 208, 110933, July 2023

48. 3D Computational Fluid Dynamics Analysis of PINI Ion Source Back Plate under High Heat Flux Condition

JENDRA PATEL, MUKTI RANJAN JANA, UJJWAL BARUAH

Fusion Engineering and Design, 192, 113841, July 2023

49. Mid-Infrared Radiation from Semiconductor Plasmas Using Extraordinary Mode of Lasers

KRISHNA GOPAL, AKHILESHWAR PRASAD SINGH, MRITYUNJAY KUNDU, AJIT UPADHYAY and PRATEEK VARSHNEY

Brazilian Journal of Physics, 53, 118, July 2023

50. Computational and Experimental Study of Nonequilibrium Flow in Plasma Wind Tunnel

VINAY UNNIKRISHNAN, NANDINI YADAVA, NIRAL VIRANI, JOYDEEP GHOSH, N. SREENIVAS, L. ARAVINDAKSHAN PILLAI and KOWSIK BODI

Journal of Thermophysics and Heat Transfer, 37, 1.T6357, July 2023

51. Spatial Flux and Energy Asymmetry in a Low Pressure Capacitively Coupled Plasma Discharge Excited By Sawtooth Waveform: A Harmonic Study

SARVESHWAR SHARMA, NISHANT SIRSE and MILES M TURNER

Physics of Plasmas, 30, 073506, July 2023

52. Study of the Evolution of Pulsed Plasma under an External Longitudinal Magnetic Field

A. AHMED, S. SINGHA, N. K. NEOG and T. K. BORTHAKUR

Journal of Applied Physics, 134, 023301, July 2023

53. Interaction of a Precursor Soliton with Wake Structure in a Flowing Dusty Plasma

KRISHAN KUMAR, P. BANDYOPADHYAY, SWARNIMA SINGH and A. SEN

Physics of Plasmas, 30, 073701, July 2023

54. Measurement of Neutron Capture Cross Section on ^{71}Ga at 2.15 and 3.19 MeV and the Uncertainty Propagation and Covariance Analysis

REBECCA PACHUAU, AMAN GANDHI, NAMRATA SINGH, AJAY KUMAR TYAGI, MAYUR MEHTA, SARASWATULA SURYANARAYAN, L. S. DANU, B K NAYAK and B LALREMRUATA

Chinese Physics C, 47, 074001, July 2023

55. Design, Manufacturing, and Testing of 0.35/25 kV, 20 kHz Transformers for Particle Accelerators

ARITRA CHAKRABORTY, PAUL D. CHRISTIAN, AMAL S, SAURABH KUMAR, ANANYA KUNDU, ASHOK MANKANI, UJJWAL K. BARUAH

Review of Scientific Instruments, 94, 74706, July 2023

56. Assessment and Optimization of Output Filter for Microsecond Transient in PSM-Based Megawatt HVPS

DISHANG V. UPADHYAY, SANTOSH C. VORA, MANISHA T. SHAH and N. P. SINGH
IEEE Transactions on Plasma Science, 51, 1988, July 2023

57. Effect of Cage Bias and Electron Emission on the Two-Electron Temperature Groups in a Hot Cathode Discharge

JOCELYN SANGMA, NARAYAN SHARMA, MONOJIT CHAKRABORTY and MAINAK BANDYOPADHYAY
Physica Scripta, 98, 075608, July 2023

58. Comparative Wettability Study of Bulk and Thin Film of Polytetrafluoroethylene after Low Energy Ion Irradiation

VIVEK PACHCHIGAR, BASANTA KUMAR PARIDA, SEBIN AUGUSTINE, SUKRITI HANS, MAHESH SAINI, K.P. SOORAJ, MUKESH RANJAN
Thin Solid Films, 777, 139888, July 2023

59. Methotrexate Degradation in Artificial Wastewater Using Non-Thermal Pencil Plasma Jet

VIKAS RATHORE, SHRUTI PATEL, AKANKSHA PANDEY, JIGNASA SAVJANI, SHITAL BUTANI, HEMAN DAVE and SUDHIR KUMAR NEMA
Environmental Science and Pollution Research, s11356-023-28502-z, July 2023

60. Indigenous Development of Epoxy Resin System for Cryogenic Services and Fusion Application

RAJIV SHARMA, ALKESH M. MAVANI and V. L. TANNA
Fusion Science and Technology, 80, 230, August 2023

61. Gyrokinetic Simulation of Short Wavelength Ion Temperature Gradient Instabilities in the ADITYA-U Tokamak

AMIT KUMAR SINGH, JAGANNATH MAHAPATRA, JUGAL CHOWDHURY, DEEPAK AGGARWAL, THOMAS HAYWARD-SCHNEIDER, RAJARAMAN GANESH, EMMANUEL LANTI and LAURENT VILLARD
Nuclear Fusion, 63, 086029, August 2023

62. Pinning of Graphene for Conformal Wrinkling Over a Soft Corrugated Substrate through Prestretch-Release Process

MUKESH PANDEY, B.K. PARIDA, M. RANJAN, RAJEEV AHUJA and RAKESH KUMAR
Applied Surface Science Advances, 16, 100433, August 2023

63. Reconstruction Algorithm for the Runaway Electron Energy Distribution Function of the ITER Hard X-Ray Monitor

ANSH PATEL, SANTOSH P PANDYA, ALEXANDER E SHEVELEV, E M KHILKEVITCH, MARGARITA ILIASOVA, RICHARD O'CONNOR, RAPHAEL TIEULENT, ROBIN BARNESLEY and ALEXANDER N MOKEEV
Physica Scripta, 98, 085604, August 2023

64. Analysis of the Coupling Characteristics of Ion Cyclotron Resonance Heating Antenna of Small Tokamak with the Help of 2D and 3D Antenna Codes

ASIM KUMAR CHATTOPADHYAY
Pramana - Journal of Physics, 97, 125, August 2023

65. Kinetic Simulation of a 50 mTorr Capacitively Coupled Argon Discharge over a Range of Frequencies and Comparison to Experiments

SAURABH SIMHA, SARVESHWAR SHARMA, ALEXANDER KHRABROV, IGOR KAGANOVICH, JONATHAN POGGIE, SERGEY MACHERE

Physics of Plasmas 30, 083509, August 2023

66. Runaway Electron Mitigation with Pulsed Localized Vertical Magnetic Field Perturbation in ADITYA Tokamak

R.L. TANNA, S. PATEL, J. GHOSH, CHETNA CHAUHAN, A. AMARDAS, P.K. CHATTOPADHYAY, K.A. JADEJA, Y.S. JOISA, U.C. NAGORA, P.K. ATREY, M.B. CHOWDHURI, R. MANCHANDA, Y.C. SAXENA and the ADITYA TEAM

Nuclear Fusion, 63, 086011, August 2023

67. Role of Micro- and Nano-CeO₂ Reinforcements on Characteristics and Tribological Performance of HVOF Sprayed Cr₃C₂-NiCr Coatings

HETAL R. CHAUHAN, SEKAR SALADI, SAHIL VARIYA, AJAYKUMAR SOLANKI, SATISH TAILOR, K.P. SOORAJ, MUKESH RANJAN, SHRIKANT JOSHI

Surface and Coatings Technology, 467, 129684, August 2023

68. Experimental Studies on the Roles of Space Charge Neutralization in a Ring Cusp Ion Source

BHARAT SINGH RAWAT, S. K. SHARMA, V. PRAHLAD, B. CHOKSI, U. K. BARUAH

IEEE Transactions on Plasma Science, 51, 2218, August 2023

69. Development of Isotopically Labelled ⁶⁵Cu Embedded PMMA-65 CuO Nanocomposites for Detection and Quantification of PMMA Bone Cement Degradation at Trace Levels

BHARTI MALVI, SWAROOP CHAKRABORTY, RAMESH CHAUDHARI, ASHUTOSH KUMAR, BALASUBRAMANIAN C., SUPERB K. MISRA

Materials Today Communications, 36, 106849, August 2023

70. Changing Pattern of N₂ Dissociation in N₂-Ar RF Plasma during E-H Mode Transition

A MUKHERJEE, M CHAKRABORTY, N SHARMA and P K SAHA

Plasma Sources Science and Technology, 32, 085004, August 2023

71. Effect of Stirring on Characteristics of Electrochemically Exfoliated Graphene

G. AWASTHI, K. MISTRY, N. JAMNAPARA, M. SALOT, K. SANTHY, D. MANDAL, S.K. CHAUDHURY

Materialia, 30, 101818, August 2023

72. Investigating the Role of Plasma-Activated Water on the Growth of Freshwater Algae *Chlorella Pyrenoidosa* and *Chlorella Sorokiniana*

VIKAS RATHORE and SUDHIR KUMAR NEMA

Plasma Chemistry and Plasma Processing, 44, 367, August 2023

73. Imidazole-Functionalized Plasma-Treated ZnO and α -Fe₂O₃ Composites for Catalytic Degradation of Dye Catalytic Degradation of Dye

BORIS WAREPPAM, N. JOSEPH SINGH, K. PRIYANANDA SINGH, N. AOMOA and L. HEROJIT SINGH

International Journal of Modern Physics B, 2450331, August 2023

74. O-Mode Reflectometry on Aditya-U

J.J.U. BUCH, S.K. PATHAK, K.M PATEL, ADITYA-U TEAM
Fusion Engineering and Design, 193, 113746, August 2023

75. Pressureless Manufacturing of High Purity Ti_3AlC_2 MAX Phase Material: Synthesis and Characterisation
VYOM DESAI, AROH SHRIVASTAVA, ARUNSINH ZALA, TEJAS PAREKH, SUROJIT GUPTA C, N. I. JAMNAPARA
Vacuum, 214, 112221, August 2023

76. Automated Plasma Probing System for Laboratory Experiments in High Vacuum Using Closed Loop Control
ROSH ROY, RITESH SUGANDHI, MRITUNJAY KUMAR, PRABAL K CHATTOPADHYAY
Fusion Engineering and Design, 193, 113849, August 2023

77. Effect of Charged Dust Grains on the Electrojet Instabilities
SANJIB SARKAR, JYOTI KUMAR ATUL, MODHUCHANDRA LAISHRAM, DANDAN ZOU and KOSTYA (KEN) OSTRIKOV
Physica Scripta, 98, 085607, August 2023

78. Development and Application of Vibration Diagnostics for Condition Monitoring in High Heat Flux Test Facility at IPR
KEDAR BHOPE, MAYUR MEHTA, SUNIL BELSARE, SAMIR KHIRWADKAR, VINAY MENON, RAJAMANNAR SWAMY, PRAKASH MOKARIYA, TUSHAR PATEL and NIKUNJ PATEL
Journal of Vibration Engineering and Technologies, s42417-023-01102-4, August 2023

79. Plasma Sheath with Multi-Species of Positive Ions and Surface Produced Negative Ions
SUTAPA SAMANTA, RAKESH MOULICK, P. J. BHUYAN, and B. J. SAIKIA
Contributions to Plasma Physics, 63, e202300044, September 2023

80. Effect of Laser Intensity Redistribution on Terahertz Field Generation via Laser Wakefield in a Magnetized Plasma
A. P. SINGH, P. VARSHNEY, A. JAIN, D. N. GUPTA, M. KUNDU and K. GOPAL
Indian Journal of Physics, 97, 3119, September 2023

81. Studies of Physio-Chemical Changes of Dielectric Barrier Discharge Plasma Treated Aramid Fibers
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1. Porous Media Approach in Hydraulic Performance Evaluation of Cable-in-Conduit Conductor in Superconducting Magnet Applications

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ROHIT MATHUR, SANTANU DWARI

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A. SARADA SREE, HITESH CHUDASMA, RAJANBABU AND RAJESH KUMAR

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