

A Salar Elahi

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Theoretical and Experimental Approach in Poloidal Beta and Internal Inductance Measurement on IR-T1 Tokamak. Journal of Fusion Energy, 2009, 28, 346-349.	1.2	56
2	Effects of Resonant Helical Field (RHF) on Equilibrium Properties of IR-T1 Tokamak Plasma. Journal of Fusion Energy, 2009, 28, 416-419.	1.2	39
3	Comparative Measurements of Plasma Position Using Multipole Moments Method and Analytical Solution of Gradâ€™Shafranov Equation in IR-T1 Tokamak. Journal of Fusion Energy, 2009, 28, 385-389.	1.2	38
4	Two Semi-Empirical Methods for Determination of Shafranov Shift in IR-T1 Tokamak. Journal of Fusion Energy, 2009, 28, 390-393.	1.2	32
5	Comparison Between Discrete Magnetic Coils and Multipole Coils for Measurement of Plasma Displacement in IR-T1 Tokamak. Journal of Fusion Energy, 2009, 28, 420-426.	1.2	30
6	Investigation of Tokamak Plasma MHD Activity Using FFT Analysis of Mirnov Coils Oscillations. Journal of Fusion Energy, 2013, 32, 103-106.	1.2	23
7	Effects of Annealing on TiN Thin Film Growth by DC Magnetron Sputtering. Advances in Mechanical Engineering, 2014, 6, 373847.	1.6	20
8	Demonstration of Shafranov Shift by the Simplest Gradâ€™Shafranov Equation Solution in IR-T1 Tokamak. Journal of Fusion Energy, 2010, 29, 73-75.	1.2	19
9	Determination of the Plasma Internal Inductance and Evaluation of its Effects on Plasma Horizontal Displacement in IR-T1 Tokamak. Journal of Fusion Energy, 2010, 29, 76-82.	1.2	18
10	Experimental Study of Effects of the Internal Inductance on the Energy Confinement Time in IR-T1 Tokamak. Journal of Fusion Energy, 2010, 29, 36-40.	1.2	17
11	Differences Between the Toroidal and Poloidal Flux Loops in the Measurement of Plasma Position in Tokamaks. Journal of Fusion Energy, 2010, 29, 209-214.	1.2	17
12	Analytical and experimental approaches in plasma displacement measurement in IR-T1 tokamak. Journal of Plasma Physics, 2010, 76, 67-74.	2.1	17
13	Investigation of Effects of Toroidal Field Ripple on Plasma Poloidal Beta in IR-T1 Tokamak. Journal of Fusion Energy, 2010, 29, 22-25.	1.2	16
14	Measurements of the Plasma Current Density and Q-Profiles in IR-T1 Tokamak. Journal of Fusion Energy, 2010, 29, 232-236.	1.2	15
15	Plasma Horizontal Displacement Measurement Using Flux Loops in IR-T1 Tokamak. Journal of Fusion Energy, 2010, 29, 62-64.	1.2	14
16	Evolution of the IR-T1 Tokamak Plasma Local and Global Parameters. Journal of Fusion Energy, 2014, 33, 1-7.	1.2	14
17	TF Ripple Effects on Plasma Energy Confinement Time in IR-T1 Tokamak. Journal of Fusion Energy, 2010, 29, 29-31.	1.2	13
18	Study of Effects of the Effective Edge Safety Factor on the Energy confinement Time in IR-T1 Tokamak. Journal of Fusion Energy, 2010, 29, 32-35.	1.2	13

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19	Effects of Alfvénic Poloidal Flow and External Vertical Field on Plasma Position in IR-T1 Tokamak. <i>Journal of Fusion Energy</i> , 2010, 29, 83-87.	1.2	13
20	Measurement of runaway electrons energy by hard X-ray spectroscopy in a small circular cross-section tokamak. <i>Radiation Effects and Defects in Solids</i> , 2011, 166, 789-794.	1.2	13
21	Turbulent Transport in the Tokamak Edge Plasma and SOL Region. <i>Journal of Fusion Energy</i> , 2013, 32, 496-502.	1.2	13
22	Review of carbon nanotubes production by thermal chemical vapor deposition technique. <i>Molecular Crystals and Liquid Crystals</i> , 2016, 629, 158-164.	0.9	13
23	Measurement of the Shafranov Parameter in Presence of the Toroidal Field Ripple in IR-T1 Tokamak. <i>Journal of Fusion Energy</i> , 2010, 29, 26-28.	1.2	12
24	Relations Between the Plasma Diamagnetic Effect and Plasma Basic Parameters in IR-T1 Tokamak. <i>Journal of Fusion Energy</i> , 2010, 29, 88-93.	1.2	12
25	x-ray irradiation analysis based on wavelet transform in tokamak plasma. <i>Journal of X-Ray Science and Technology</i> , 2014, 22, 777-783.	1.0	12
26	Energetic electrons, hard x-ray emission and MHD activity studies in the IR-T1 tokamak. <i>Journal of X-Ray Science and Technology</i> , 2015, 23, 267-274.	1.0	11
27	Determination of Electron Energy Distribution Function in Tokamak Plasma. <i>Journal of Fusion Energy</i> , 2015, 34, 911-917.	1.2	11
28	Estimating Time Dependence of Edge Plasma Turbulence in IR-T1 Tokamak. <i>Journal of Fusion Energy</i> , 2013, 32, 268-272.	1.2	10
29	Low MHD activity using resonant helical field and limiter biasing in IR-T1 tokamak. <i>Journal of Plasma Physics</i> , 2013, 79, 765-770.	2.1	10
30	Controlling the Diffusion of Runaway Electrons by Safety Factor Changes in IR-T1 Tokamak. <i>Journal of Fusion Energy</i> , 2016, 35, 180-186.	1.2	10
31	Application of argon atmospheric cold plasma for indium tin oxide (ITO) based diodes. <i>AIP Advances</i> , 2017, 7, .	1.3	10
32	Effects of Hot Limiter Biasing on Tokamak Runaway Discharges. <i>Journal of Fusion Energy</i> , 2013, 32, 580-588.	1.2	9
33	Analysis of the radial and poloidal turbulent transport in the edge tokamak plasma. <i>Journal of Plasma Physics</i> , 2013, 79, 647-655.	2.1	9
34	STFT Analysis of the Particle Transport on the IR-T1 Tokamak Plasma Sheath. <i>Journal of Fusion Energy</i> , 2014, 33, 108-118.	1.2	9
35	Preparation of Poriferous Glass Bodies by Useless Glasses Partial Sintering Process. <i>Materials and Manufacturing Processes</i> , 2015, 30, 1348-1353.	4.7	9
36	Plasma-based sputtering of indium tin oxide for the application of photovoltaic cells. <i>Radiation Effects and Defects in Solids</i> , 2015, 170, 541-547.	1.2	9

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37	The influence of the cathode array and the pressure variations on the current sheath dynamics of a small plasma focus device in the presence of an axial magnetic probe. <i>Physics of Plasmas</i> , 2017, 24, 043504.	1.9	9
38	Control of the Plasma Characteristics by Hot Limiter Biasing in the IR-T1 Tokamak. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 2394-2399.	1.3	8
39	Nano-Scale Precipitates of Reduced Activation Steels for the Application of Nuclear Fusion Reactors. <i>Journal of Fusion Energy</i> , 2015, 34, 449-455.	1.2	8
40	Feedback System Design for Plasma Horizontal Position Control in IR-T1 Tokamak. <i>Journal of Fusion Energy</i> , 2016, 35, 415-421.	1.2	8
41	Effects of External Resonant Fields on the Tokamak Edge Plasma Fluctuations. <i>Journal of Fusion Energy</i> , 2013, 32, 627-633.	1.2	7
42	Plasma Confinement Modification in IR-T1 Tokamak by Velocity Shear Stabilization. <i>Journal of Fusion Energy</i> , 2014, 33, 158-165.	1.2	7
43	The Impact of Improved Nucleation Layer on the Properties of Boron-Doped Diamond Films. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 1040-1043.	3.7	7
44	A confident source of hard X-rays: radiation from a tokamak applicable for runaway electrons diagnosis. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1227-1231.	2.4	7
45	Effect of Resonant Helical Field (RHF) on Runaway Electrons in Tokamaks. <i>Journal of Fusion Energy</i> , 2013, 32, 543-546.	1.2	6
46	Fast Electrons Behavior in Presence of External Radial Electric Field in IR-T1 Tokamak. <i>Journal of Fusion Energy</i> , 2014, 33, 242-251.	1.2	6
47	Increase of the Surface Mobility of Carbon Molecular Crystals (CMCs) Using the PECVD Technique. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2016, 26, 773-779.	3.7	6
48	The effects of pre-ionization on the impurity and x-ray level in a dense plasma focus device. <i>Physics of Plasmas</i> , 2017, 24, 022509.	1.9	6
49	Laser fusion energy from p-7Li with minimized radioactivity. <i>Laser and Particle Beams</i> , 2012, 30, 459-463.	1.0	5
50	The MDF technique for the analysis of tokamak edge plasma fluctuations. <i>Journal of Plasma Physics</i> , 2014, 80, 43-58.	2.1	5
51	Plasma Stability Evaluation Based on MHD Activity and Hard X-Ray Emission in the IR-T1 Tokamak. <i>Journal of Fusion Energy</i> , 2014, 33, 264-268.	1.2	5
52	Tokamak plasma equilibrium analysis based on the relaxation method with a specified magnetic axis. <i>Radiation Effects and Defects in Solids</i> , 2014, 169, 669-678.	1.2	5
53	Effect of external resonant fields and limiter biasing on hard X-ray intensity and mirnov oscillations in IR-T1 Tokamak. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	5
54	Design and Fabrication of Comparative Langmuir Ball-Pen Probe (LBP) for the Tokamak. <i>Journal of Fusion Energy</i> , 2015, 34, 394-397.	1.2	5

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55	Application of picosecond terawatt laser pulses for fast ignition of fusion. <i>Laser and Particle Beams</i> , 2013, 31, 249-256.	1.0	4
56	Application of partial sintering of waste glasses for preparation of porous glass bodies. <i>Journal of Porous Materials</i> , 2014, 21, 993-999.	2.6	4
57	Application of multipole moments and magnetic techniques for determination of tokamak plasma shift. <i>Journal of Plasma Physics</i> , 2014, 80, 9-25.	2.1	4
58	A New Perspective on Protection of Nuclear Reactor Surfaces From High Energy Plasma Irradiation by Equilibrium Reconstruction. <i>IEEE Transactions on Nuclear Science</i> , 2016, 63, 2703-2708.	2.0	4
59	The effect of varying the introduction mode of reactants on electrical, physical and thermal stability properties of polypyrrole synthesized with CTAB. <i>AIP Advances</i> , 2017, 7, 105222.	1.3	4
60	Coating stainless steel with diamond-like carbon using the hot filament chemical vapor deposition system, and its effects on fusion devices. <i>Radiation Effects and Defects in Solids</i> , 2013, 168, 717-723.	1.2	3
61	Novel Design of Multi-Purpose Probe for the Measurement of Plasma Density Gradient, Flow and Transport. <i>Journal of Fusion Energy</i> , 2015, 34, 273-276.	1.2	3
62	The Effects of Percent and Position of Nitrogen Atoms on Electronic and Thermoelectric Properties of Graphene Nanoribbons. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2016, 26, 1095-1100.	3.7	3
63	First investigation on plasma impurities of the IR-T1 tokamak. <i>AIP Advances</i> , 2017, 7, 115303.	1.3	3
64	Magnetic Studies of Tokamak Plasma Equilibrium Based on Magnetic System Materials and Characteristics. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2016, 26, 467-471.	3.7	2
65	New perspective on nano-porous gallium nitride formation on p-type silicon with plasma focus device. <i>Materials and Manufacturing Processes</i> , 2017, 32, 1274-1278.	4.7	2
66	Investigation on the Hard X-ray Radiations of the IR-T1 Tokamak Plasma: Electric and Magnetic Perspectives. <i>Brazilian Journal of Physics</i> , 2017, 47, 567-574.	1.4	2
67	Surface protection from high energy electrons and X-ray radiation analysis in tokamak plasma. <i>Journal of X-Ray Science and Technology</i> , 2017, 25, 777-785.	1.0	2
68	Growth and Characterization of Boron-Carbon Structures with the Hot Filament Chemical Vapor Deposition Technique. <i>Silicon</i> , 2018, 10, 1731-1736.	3.3	2
69	Antibacterial characteristics of thermal plasma spray system. <i>Journal of X-Ray Science and Technology</i> , 2018, 26, 509-521.	1.0	2
70	Growth of Diamond-Like Carbon and Icosahedral Boron Carbide by Chemical Vapor Deposition System. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 608, 223-236.	0.9	1
71	Growth of Dual DLC and Icosahedral Boron Carbide Nano-Crystals by HFCVD. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 608, 103-115.	0.9	1
72	Growth of Inorganic Solid Nanorods by Hot Filament Chemical Vapor Deposition Technique. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 609, 228-234.	0.9	1

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73	Magnetron Amplifier-Type Helix Loaded Waveguide Analysis Based on Dispersion Relation. IEEE Transactions on Electron Devices, 2015, 62, 3413-3418.	3.0	1
74	Double capacitive probe for the measurement of plasma potential in tokamak. Instruments and Experimental Techniques, 2016, 59, 688-691.	0.5	1
75	Determination of Tokamak Plasma Electrical Fluctuations using the Langmuir Probe [Withdrawn]. IEEE Transactions on Plasma Science, 2024, , 1-4.	1.3	1
76	Analysis of tokamak plasma confinement modes using the fast Fourier transformation. Pramana - Journal of Physics, 2016, 87, 1.	1.8	1
77	Biasing Effect on the Edge Plasma Electrical Fluctuations in IR-T1 Tokamak. Journal of Fusion Energy, 2017, 36, 21-24.	1.2	1
78	A novel technique based on a plasma focus device for nano-porous gallium nitride formation on P-type silicon. Physics of Plasmas, 2017, 24, 043511.	1.9	1
79	Nuclear Fusion. Advances in Materials Science and Engineering, 2014, 2014, 1-1.	1.8	0
80	Nuclear reactors. Advances in Mechanical Engineering, 2015, 7, 168781401560236.	1.6	0
81	Review on Plasma Edge Analysis Using the Auto-Correlation and Probability Distributions of Fluctuations. Journal of Fusion Energy, 2015, 34, 1356-1364.	1.2	0
82	Carbonization, Impregnation and Activation Synthesis for Sulfur Dioxide Adsorbent Capacity of Carbon. Journal of Inorganic and Organometallic Polymers and Materials, 2015, 25, 1542-1546.	3.7	0
83	Design and fabrication of a new compound probe for plasma flux measurement in IR-T1 tokamak. Review of Scientific Instruments, 2017, 88, 093516.	1.3	0
84	The effect of spacing factor on the confinement time of the electrons in a low beta Polywell device. AIP Advances, 2020, 10, 055305.	1.3	0
85	Design and Fabrication of Multipurpose Diagnostic in IR-T1 Tokamak. Advances in Mechanical Engineering, 2014, 6, 491804.	1.6	0