

# Tariq Rafiq

## List of Publications by Year in descending order

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39  
times ranked

342  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physics basis of Multi-Mode anomalous transport module. Physics of Plasmas, 2013, 20, .	1.9	50
2	Local magnetic shear and drift waves in stellarators. Physics of Plasmas, 2001, 8, 4375-4385.	1.9	31
3	Development of drift-resistive-inertial ballooning transport model for tokamak edge plasmas. Physics of Plasmas, 2010, 17, 082511.	1.9	29
4	Microtearing modes in tokamak discharges. Physics of Plasmas, 2016, 23, .	1.9	21
5	Ion-temperature-gradient modes in stellarator geometry. Plasma Physics and Controlled Fusion, 2001, 43, 1363-1377.	2.1	18
6	Integrated modelling for prediction of optimized ITER performance. Nuclear Fusion, 2011, 51, 123009.	3.5	17
7	A comparison of drift wave stability in stellarator and tokamak geometry. Physics of Plasmas, 2002, 9, 1629-1636.	1.9	16
8	Non-Linear Langevin and Fractional Fokker-Planck Equations for Anomalous Diffusion by Quasi-Stable Processes. Entropy, 2018, 20, 760.	2.2	15
9	Integrated modeling of temperature profiles in L-mode tokamak discharges. Physics of Plasmas, 2014, 21, 122505.	1.9	14
10	Unstable ion-temperature-gradient modes in the Wendelstein 7-X stellarator configuration. Physics of Plasmas, 2002, 9, 4929-4938.	1.9	13
11	Elucidating plasma dynamics in Hasegawa-Wakatani turbulence by information geometry. Physics of Plasmas, 2020, 27, 022307.	1.9	12
12	Simulation of electron thermal transport in H-mode discharges. Physics of Plasmas, 2009, 16, 032505.	1.9	11
13	Nonlinear dynamics and anomalous energy transport in an electrostatic ion-temperature-gradient driven drift-dissipative mode. Physics of Plasmas, 1999, 6, 3571-3575.	1.9	10
14	Unified theory of resistive and inertial ballooning modes in three-dimensional configurations. Physics of Plasmas, 2009, 16, 102505.	1.9	10
15	Fusion power production in International Thermonuclear Experimental Reactor baseline H-mode scenarios. Physics of Plasmas, 2015, 22, 042511.	1.9	9
16	Reversal of particle flux in collisional-finite beta tokamak discharges. Physics of Plasmas, 2015, 22, .	1.9	8
17	Study of the parametric dependence of linear and nonlinear microtearing modes in conventional tokamak discharges. Physics of Plasmas, 2018, 25, .	1.9	8
18	NSTX-U theory, modeling and analysis results. Nuclear Fusion, 2022, 62, 042023.	3.5	8

#	ARTICLE	IF	CITATIONS
19	Electromagnetic ion-temperature-gradient modes and anomalous transport in a nonuniform magnetized plasma with equilibrium flows. <i>Physics of Plasmas</i> , 2000, 7, 1125-1131.	1.9	7
20	Drift wavs in helically symmetric stellarators. <i>Physics of Plasmas</i> , 2005, 12, 112505.	1.9	7
21	Effect of pedestal height and internal transport barriers on International Thermonuclear Experimental Reactor target steady state simulations. <i>Physics of Plasmas</i> , 2011, 18, 112508.	1.9	7
22	Improved Multi-Mode anomalous transport module for tokamak plasmas. <i>Computer Physics Communications</i> , 2013, 184, 2267-2276.	7.5	7
23	Investigation of the plasma shaping effects on the H-mode pedestal structure using coupled kinetic neoclassical/MHD stability simulations. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	7
24	Drift-resistive-inertial ballooning modes in quasihelical stellarators. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	6
25	Microtearing instabilities and electron thermal transport in low and high collisionality NSTX discharges. <i>Physics of Plasmas</i> , 2021, 28, 022504.	1.9	6
26	Neural network model of the multi-mode anomalous transport module for accelerated transport simulations. <i>Nuclear Fusion</i> , 2021, 61, 106040.	3.5	6
27	Theory for transport in magnetized plasmas. <i>Physica Scripta</i> , 2020, 95, 105607.	2.5	6
28	Study of Heating and Fusion Power Production in ITER Discharges. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	5
29	Collisionless trapped electron and ion temperature gradient modes in an advanced tokamak equilibrium. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	3
30	Simulation of anomalous transport in tokamaks using the FACETS code. <i>Computer Physics Communications</i> , 2011, 182, 180-184.	7.5	3
31	Validation of transport models using additive flux minimization technique. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	3
32	Self-consistent core-pedestal ITER scenario modeling. <i>Nuclear Fusion</i> , 2021, 61, 116005.	3.5	3
33	Anomalous Heat Transport and Vortex Formation Due to Electronâ€™Temperatureâ€™Gradient Driven Drift Waves In a Sheared Flow Plasma. <i>Physica Scripta</i> , 1999, 60, 261-264.	2.5	2
34	Unstable ion-temperature-gradient modes in an advanced tokamak plasma. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, 1019-1031.	2.1	2
35	Chaos in the parallel sheared plasma flow driven electromagnetic turbulence in nonuniform magnetoplasmas. <i>Physics of Plasmas</i> , 1999, 6, 1107-1112.	1.9	1
36	Model-based optimal scenario planning in EAST. <i>Fusion Engineering and Design</i> , 2017, 123, 569-573.	1.9	1

#	ARTICLE	IF	CITATIONS
37	Chaotic behavior of ion-temperature-gradient driven drift-dissipative modes. Physics of Plasmas, 2000, 7, 4499-4505.	1.9	0
38	NSTX-U theory, modeling and analysis results. Nuclear Fusion, 0, , .	3.5	0