

# Santanu Banerjee

## List of Publications by Year in descending order

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38  
papers

426  
citations

759233

12  
h-index

794594

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39  
all docs

39  
docs citations

39  
times ranked

328  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of recent experimental results from the Aditya tokamak. Nuclear Fusion, 2017, 57, 102008.	3.5	36
2	Role of energetic electrons during current ramp-up and production of high poloidal beta plasma in non-inductive current drive on QUEST. Nuclear Fusion, 2014, 54, 023010.	3.5	29
3	Overview of operation and experiments in the ADITYA-U tokamak. Nuclear Fusion, 2019, 59, 112006.	3.5	28
4	Investigation of oxygen impurity transport using the O4+visible spectral line in the Aditya tokamak. Nuclear Fusion, 2013, 53, 023006.	3.5	24
5	Statistical features of coherent structures at increasing magnetic field pitch investigated using fast imaging in QUEST. Nuclear Fusion, 2012, 52, 123016.	3.5	23
6	Energy exchange dynamics across $L\text{-}H$ transitions in NSTX. Nuclear Fusion, 2017, 57, 066050.	3.5	21
7	Space- and time-resolved visible-emission spectroscopy of Aditya-tokamak discharges using multi-track spectrometer. Measurement Science and Technology, 2008, 19, 045603.	2.6	20
8	Calibration of a VUV spectrograph by collisional-radiative modelling of a discharge plasma. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 144012.	1.5	20
9	Improvement of Plasma Performance with Lithium Wall Conditioning in Aditya Tokamak. Plasma Science and Technology, 2013, 15, 123-128.	1.5	19
10	Plasma production and preliminary results from the ADITYA Upgrade tokamak. Plasma Science and Technology, 2018, 20, 074002.	1.5	18
11	Runaway-loss induced negative and positive loop voltage spikes in the Aditya Tokamak. Physics of Plasmas, 2010, 17, .	1.9	15
12	A universal mechanism for plasma blob formation. Physics of Plasmas, 2019, 26, .	1.9	15
13	Observation of quasi-coherent edge fluctuations in Ohmic plasmas on National Spherical Torus Experiment. Physics of Plasmas, 2016, 23, 044502.	1.9	12
14	Investigation of atomic and molecular processes in $H_{\alpha}$ emission through modelling of measured $H_{\alpha}$ emissivity profile using DEGAS2 in the ADITYA tokamak. Nuclear Fusion, 2019, 59, 076005.	3.5	11
15	Dynamical programming based turbulence velocimetry for fast visible imaging of tokamak plasma. Review of Scientific Instruments, 2015, 86, 033505.	1.3	10
16	Edge turbulence velocity preceding the L-H transition in NSTX. Physics of Plasmas, 2021, 28, .	1.9	10
17	Fast visible imaging and edge turbulence analysis in QUEST. Review of Scientific Instruments, 2012, 83, 10E524.	1.3	9
18	Ion thermal transport in the H-mode edge transport barrier on DIII-D. Physics of Plasmas, 2022, 29, .	1.9	9

#	ARTICLE	IF	CITATIONS
19	Correlation between the relative blob fraction and plasma parameters in NSTX. Physics of Plasmas, 2022, 29, .	1.9	9
20	Drift-Alfven waves induced optical emission fluctuations in Aditya tokamak. Physics of Plasmas, 2010, 17, 072515.	1.9	8
21	Role of stochasticity in turbulence and convective intermittent transport at the scrape off layer of Ohmic plasma in QUEST. Physics of Plasmas, 2014, 21, 072311.	1.9	8
22	Dynamics of neon ions after neon gas seeding into tokamak plasma. Nuclear Fusion, 2019, 59, 126013.	3.5	8
23	Experimental validation of universal plasma blob formation mechanism. Nuclear Fusion, 2022, 62, 026027.	3.5	8
24	NSTX-U theory, modeling and analysis results. Nuclear Fusion, 2022, 62, 042023.	3.5	8
25	Observation of poloidal asymmetry in measured neutral temperatures in the Aditya-U tokamak plasma. Nuclear Fusion, 2019, 59, 106003.	3.5	7
26	Evolution of ELMs, pedestal profiles and fluctuations in the inter-ELM period in NBI- and ECH-dominated discharges in DIII-D. Nuclear Fusion, 2021, 61, 056008.	3.5	7
27	Observation of thick toroidal filaments during the disruptive phase of Aditya tokamak plasma. Physics of Plasmas, 2017, 24, .	1.9	6
28	Modification of plasma flows in edge and SOL regions by influence of neutral gas. Physics of Plasmas, 2018, 25, 102503.	1.9	6
29	New understanding of inter-ELM pedestal turbulence, transport, and gradient behavior in the DIII-D tokamak. Nuclear Fusion, 2021, 61, 126037.	3.5	5
30	Measurement of spatial and temporal behavior of $H\alpha$ emission from Aditya tokamak using a diagnostic based on a photomultiplier tube array. Review of Scientific Instruments, 2014, 85, 11E411.	1.3	4
31	Modeling of eddy current distribution in the SST-1 tokamak. Fusion Engineering and Design, 2018, 127, 216-225.	1.9	3
32	Dynamics of dust events in the graphite first wall equipped SST-1 tokamak. Plasma Physics and Controlled Fusion, 2018, 60, 095001.	2.1	3
33	Runaway electron mitigation with supersonic molecular beam injection (SMBI) in ADITYA-U tokamak. Nuclear Fusion, 2021, 61, 016027.	3.5	3
34	Effect of magnetic shear on edge turbulence in SOL-like open field line configuration in QUEST. Plasma Physics and Controlled Fusion, 2018, 60, 085014.	2.1	2
35	Initial results in SST-1 after up-gradation. Journal of Physics: Conference Series, 2017, 823, 012004.	0.4	1
36	Design and Integration of SMBI System for SST-1 Tokamak. Journal of Physics: Conference Series, 2017, 823, 012063.	0.4	1

#	ARTICLE	IF	CITATIONS
37	Parameter space validation through OOPS simulations of plasma burnthrough and discharge evolution in the SST-1 tokamak. Physics of Plasmas, 2020, 27, 042505.	1.9	0
38	NSTX-U theory, modeling and analysis results. Nuclear Fusion, 0, , .	3.5	0