

Santosh V Vadawale

List of Publications by Year in descending order

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73
papers

1,284
citations

331670

21
h-index

395702

33
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75
all docs

75
docs citations

75
times ranked

1521
citing authors

#	ARTICLE	IF	CITATIONS
1	Ground calibration of Solar X-ray Monitor on board the Chandrayaan-2 orbiter. <i>Experimental Astronomy</i> , 2021, 51, 33-60.	3.7	8
2	Data processing software for Chandrayaan-2 Solar X-ray Monitor. <i>Astronomy and Computing</i> , 2021, 34, 100449.	1.7	13
3	A machine learning approach for GRB detection in <i>AstroSat</i> CZTI data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 3084-3091.	4.4	2
4	Observations of the Quiet Sun during the Deepest Solar Minimum of the Past Century with Chandrayaan-2 XSM: Sub-A-class Microflares outside Active Regions. <i>Astrophysical Journal Letters</i> , 2021, 912, L13.	8.3	20
5	Observations of the Quiet Sun during the Deepest Solar Minimum of the Past Century with Chandrayaan-2 XSM: Elemental Abundances in the Quiescent Corona. <i>Astrophysical Journal Letters</i> , 2021, 912, L12.	8.3	14
6	A generalized event selection algorithm for <i>AstroSat</i> CZT imager data. <i>Journal of Astrophysics and Astronomy</i> , 2021, 42, 1.	1.0	3
7	Multi-wavelength view of the galactic black-hole binary GRS 1716-249. <i>Journal of Astrophysics and Astronomy</i> , 2021, 42, 1.	1.0	4
8	Exploring sub-MeV sensitivity of <i>AstroSat</i> CZTI for ON-axis bright sources. <i>Journal of Astrophysics and Astronomy</i> , 2021, 42, 1.	1.0	3
9	Imaging calibration of <i>AstroSat</i> Cadmium Zinc Telluride Imager (CZTI). <i>Journal of Astrophysics and Astronomy</i> , 2021, 42, 1.	1.0	2
10	Using collimated CZTI as all-sky X-ray detector based on Earth occultation technique. <i>Journal of Astrophysics and Astronomy</i> , 2021, 42, 1.	1.0	4
11	Characterisation of cosmic ray induced noise events in <i>AstroSat</i> -CZT imager. <i>Journal of Astrophysics and Astronomy</i> , 2021, 42, 1.	1.0	1
12	Sub-MeV spectroscopy with <i>AstroSat</i> -CZT imager for gamma ray bursts. <i>Journal of Astrophysics and Astronomy</i> , 2021, 42, 1.	1.0	6
13	Chandrayaan-2 Large Area Soft X-ray Spectrometer (CLASS): Calibration, In-flight performance and first results. <i>Icarus</i> , 2021, 363, 114436.	2.5	3
14	The <i>AstroSat</i> mass model: Imaging and flux studies of off-axis sources with CZTI. <i>Journal of Astrophysics and Astronomy</i> , 2021, 42, 1.	1.0	9
15	Radio, X-Ray, and Extreme-ultraviolet Observations of Weak Energy Releases in the Quiet Sun. <i>Astrophysical Journal Letters</i> , 2021, 918, L18.	8.3	2
16	Evolution of Elemental Abundances during B-Class Solar Flares: Soft X-Ray Spectral Measurements with Chandrayaan-2 XSM. <i>Astrophysical Journal</i> , 2021, 920, 4.	4.5	18
17	Investigation of radiation damage due to particle irradiation on Silicon Drift Detector for Chandrayaan-2 mission. <i>Journal of Instrumentation</i> , 2020, 15, P01002-P01002.	1.2	1
18	Solar X-Ray Monitor on Board the Chandrayaan-2 Orbiter: In-Flight Performance and Science Prospects. <i>Solar Physics</i> , 2020, 295, 1.	2.5	21

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19	A Retrograde Spin of the Black Hole in MAXI J1659â€“152. <i>Astrophysical Journal Letters</i> , 2020, 888, L30.	8.3	6
20	Ground calibration of Alpha Particle X-ray Spectrometer (APXS) on-board Chandrayaan-2 Pragyaan rover: An empirical approach. <i>Planetary and Space Science</i> , 2020, 187, 104923.	1.7	1
21	Spectropolarimetric analysis of prompt emission of GRB 160325A: jet with evolving environment of internal shocks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 5218-5232.	4.4	10
22	Solar X-ray Monitor Onboard Chandrayaan-2 Orbiter. <i>Current Science</i> , 2020, 118, 45.	0.8	16
23	Time-varying Polarized Gamma-Rays from GRB 160821A: Evidence for Ordered Magnetic Fields. <i>Astrophysical Journal Letters</i> , 2019, 882, L10.	8.3	29
24	A variable-frequency HFQPO in GRSâˆ“1915+105 as observed with AstroSat. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 1037-1043.	4.4	21
25	AstroSat-CZTI Detection of Variable Prompt Emission Polarization in GRB 171010A. <i>Astrophysical Journal</i> , 2019, 874, 70.	4.5	23
26	Prompt Emission Polarimetry of Gamma-Ray Bursts with the AstroSat CZT Imager. <i>Astrophysical Journal</i> , 2019, 884, 123.	4.5	45
27	NICSPol: a near-infrared polarimeter for the 1.2-m telescope at Mount Abu Infrared Observatory. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2019, 5, 1.	1.8	1
28	Phase-resolved X-ray polarimetry of the Crab pulsar with the AstroSat CZT Imager. <i>Nature Astronomy</i> , 2018, 2, 50-55.	10.1	59
29	AstroSat and Chandra View of the High Soft State of 4U 1630â€“47 (4U 1630â€“472): Evidence of the Disk Wind and a Rapidly Spinning Black Hole. <i>Astrophysical Journal</i> , 2018, 867, 86.	4.5	18
30	Aditya Solarwind Particle EXperiment (ASPEX) onboard the Aditya-L1 mission. <i>Planetary and Space Science</i> , 2018, 163, 42-55.	1.7	7
31	Violation of Synchrotron Line of Death by the Highly Polarized GRB 160802A. <i>Astrophysical Journal</i> , 2018, 862, 154.	4.5	16
32	Development of position sensitive detector module using scintillator and Si photomultiplier for hard x-ray imaging and spectroscopy. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2018, 5, 1.	1.8	2
33	A Precise Measurement of the Orbital Period Parameters of Cygnus X-3. <i>Astrophysical Journal</i> , 2017, 849, 141.	4.5	12
34	The Cadmium Zinc Telluride Imager on AstroSat. <i>Journal of Astrophysics and Astronomy</i> , 2017, 38, 1.	1.0	70
35	Charged Particle Monitor on the Astrosat Mission. <i>Journal of Astrophysics and Astronomy</i> , 2017, 38, 1.	1.0	7
36	A Tale of Two Transients: GW 170104 and GRBâˆ“170105A. <i>Astrophysical Journal</i> , 2017, 845, 152.	4.5	29

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37	Surprise in simplicity: an unusual spectral evolution of a single pulse GRB 151006A. Monthly Notices of the Royal Astronomical Society, 2017, 472, 891-903.	4.4	7
38	Cadmium-Zinc-Telluride Imager On-Board Astrosat: A Multi-Faceted Hard X-Ray Instrument. Current Science, 2017, 113, 595.	0.8	23
39	Probing the Heliosphere Using <i>In Situ</i> Payloads On-Board Aditya-L1. Current Science, 2017, 113, 620.	0.8	7
40	ASTROSAT CZT IMAGER OBSERVATIONS OF GRB 151006A: TIMING, SPECTROSCOPY, AND POLARIZATION STUDY. Astrophysical Journal, 2016, 833, 86.	4.5	30
41	Line profile modelling for multi-pixel CZT detectors. Proceedings of SPIE, 2016, , .	0.8	7
42	In-orbit performance AstroSat CZTI. Proceedings of SPIE, 2016, , .	0.8	13
43	Development of a hard x-ray focal plane Compton polarimeter: a compact polarimetric configuration with scintillators and Si photomultipliers. Experimental Astronomy, 2016, 41, 197-214.	3.7	9
44	INVESTIGATING THE CONNECTION BETWEEN QUASI-PERIODIC OSCILLATIONS AND SPECTRAL COMPONENTS WITH NuSTAR DATA OF GRS 1915+105. Astrophysical Journal, 2016, 817, 28.	4.5	2
45	Radiation effects on Silicon Drift Detector based X-ray spectrometer on-board Chandrayaan-2 mission. Journal of Instrumentation, 2015, 10, P09005-P09005.	1.2	3
46	A new technique for measuring the leakage current in Silicon Drift Detector based X-ray spectrometer—implications for on-board calibration. Journal of Instrumentation, 2015, 10, P02009-P02009.	1.2	6
47	Space radiation induced displacement damage effects on the performance of the silicon drift detector onboard Chandrayaan-2 mission. , 2015, , .		0
48	Hard X-ray polarimetry with Astrosat-CZTI. Astronomy and Astrophysics, 2015, 578, A73.	5.1	47
49	Variation of the inner disk radius during the onset of the 2010 outburst of MAXI J1659-152. Research in Astronomy and Astrophysics, 2015, 15, 45-54.	1.7	2
50	MEASUREMENT OF LOW ENERGY DETECTION EFFICIENCY OF A PLASTIC SCINTILLATOR: IMPLICATIONS ON THE LOWER ENERGY LIMIT AND SENSITIVITY OF A HARD X-RAY FOCAL PLANE COMPTON POLARIMETER. Astrophysical Journal, Supplement Series, 2014, 212, 12.	7.7	8
51	Prospects of hard X-ray polarimetry with Astrosat-CZTI. Experimental Astronomy, 2014, 37, 555-577.	3.7	32
52	Hard X-ray continuum from lunar surface: Results from High Energy X-ray spectrometer (HEX) onboard Chandrayaan-1. Advances in Space Research, 2014, 54, 2041-2049.	2.6	10
53	Solar X-ray Monitor (XSM) on-board Chandrayaan-2 orbiter. Advances in Space Research, 2014, 54, 2021-2028.	2.6	25
54	Compton polarimeter as a focal plane detector for hard X-ray telescope: sensitivity estimation with Geant4 simulations. Experimental Astronomy, 2013, 35, 391-412.	3.7	12

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55	Prospects of hard X-ray polarimetry with Astrosat-CZTI. , 2013, , .		1
56	A conceptual design of hard X-ray focal plane detector for simultaneous x-ray polarimetric, spectroscopic, and timing measurements. Proceedings of SPIE, 2012, , .	0.8	8
57	WHY IS IGR J17091â€“3624 SO FAINT? CONSTRAINTS ON DISTANCE, MASS, AND SPIN FROM â€œPHASE-RESOLVEDâ€• SPECTROSCOPY OF THE â€œHEARTBEATâ€• OSCILLATIONS. Astrophysical Journal Letters, 2012, 757, L12.	8.3	25
58	Suzaku observation of the transient X-ray pulsar GRO J1008â”57. Monthly Notices of the Royal Astronomical Society, 2011, 413, 241-248.	4.4	29
59	An overview of RADOM results for earth and moon radiation environment on Chandrayaan-1 satellite. Advances in Space Research, 2011, 48, 779-791.	2.6	26
60	Comparative study of different scattering geometries for the proposed Indian X-ray polarization measurement experiment using Geant4. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 618, 182-189.	1.6	10
61	Characterization and selection of CZT detector modules for HEX experiment onboard Chandrayaan-1. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 598, 485-495.	1.6	15
62	GRS 1915+105: the distance, radiative processes and energy-dependent variability. Monthly Notices of the Royal Astronomical Society, 2005, 360, 825-838.	4.4	54
63	Multipixel characterization of imaging CZT detectors for hard x-ray imaging and spectroscopy. , 2004, , .		12
64	Binary corrected X-ray light curve of Cygnus X-3: Implications for the timing properties of the compact binary system. Astronomy and Astrophysics, 2004, 420, 665-671.	5.1	5
65	Quasi-periodic oscillation frequencies and mass-outflow rates in black hole powered Galactic microquasars. Monthly Notices of the Royal Astronomical Society, 2003, 343, 443-455.	4.4	17
66	Correlated Radio: X-Ray Emission in the Hard States of Galactic Microquasars. Astrophysical Journal, 2003, 593, 452-462.	4.5	12
67	On the Origin of the Various Types of Radio Emission in GRS 1915+105. Astrophysical Journal, 2003, 597, 1023-1035.	4.5	68
68	Disk-jet connection in Cygnus X-3. Astronomy and Astrophysics, 2002, 383, L35-L38.	5.1	19
69	Ejection of the inner accretion disk in GRS 1915+105: The magnetic rubber-band effect. Astronomy and Astrophysics, 2001, 380, 245-250.	5.1	44
70	OSSE and [ITAL]RXTE/[ITAL] Observations of GRS 1915+105: Evidence for Nonthermal Comptonization. Astrophysical Journal, 2001, 554, L45-L48.	4.5	121
71	X-ray emission characteristics of GRS 1915+105 during the two spectral states. Advances in Space Research, 2001, 28, 343-347.	2.6	1
72	Observational evidence for mass ejection during soft X-ray dips in GRS 1915+105. Astronomy and Astrophysics, 2001, 370, L17-L21.	5.1	33

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73	Spectral differences between the radio-loud and radio-quiet low-hard states of GRS 1915+105: Possible detection of synchrotron radiation in X-rays. <i>Astronomy and Astrophysics</i> , 2001, 372, 793-802.	5.1	34