# Sandip K Chakrabarti

List of Publications by Year
in descending order



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|---|---|---|---|
| 225 papers | 5,061 citations | 101543 36 h-index | 133252 59 g-index |
| 227 all docs | 227 docs citations | 227 times ranked | 1139 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Similarities and differences in accretion flow properties between GRS 1915+105 and IGR J17091-3624: a case study. Advances in Space Research, 2022, , . | 2.6 | 0 |
| 2 | Direct and indirect evidence of pre-seismic electromagnetic emissions associated with two large earthquakes in Japan. Natural Hazards, 2022, 112, 2403-2432. | 3.4 | 8 |
| 3 | Unusual Surface Latent Heat Flux Variations and Their Critical Dynamics Revealed before Strong Earthquakes. Entropy, 2022, 24, 23. | 2.2 | 18 |
| 4 | Understanding accretion flow properties of black hole candidates after implementation of the TCAF solution in XSPEC. , 2022, , . | | 0 |
| 5 | Accretion around low mass and supermassive black holes with TCAF. , 2022, , . | | 1 |
| 6 | Identification of Methyl Isocyanate and Other Complex Organic Molecules in a Hot Molecular Core, G31.41+0.31. Astrophysical Journal, 2021, 907, 108. | 4.5 | 21 |
| 7 | Numerical simulation of lower ionospheric reflection parameters by using International Reference Ionosphere (IRI) model and validation with Very Low Frequency (VLF) radio signal characteristics. Advances in Space Research, 2021, 67, 1599-1611. | 2.6 | 10 |
| 8 | Relation between Quiescence and Outbursting Properties of GX 339-4. Astrophysical Journal, 2021, 910, 138. | 4.5 | 9 |
| 9 | Properties of Faint X-ray Activity of XTE J1908+094 in 2019. Galaxies, 2021, 9, 25. | 3.0 | 5 |
| 10 | Jet properties of XTE J1752â˜’223 during its 2009â€“2010 outburst. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4242-4251. | 4.4 | 8 |
| 11 | Effect of Binding Energies on the Encounter Desorption. Frontiers in Astronomy and Space Sciences, 2021, 8, . | 2.8 | 9 |
| 12 | Study of Accretion Flow Dynamics of V404 Cygni during Its 2015 Outburst. Galaxies, 2021, 9, 39. | 3.0 | 2 |
| 13 | Accretion properties of MAXI J1813-095 during its failed outburst in 2018. Research in Astronomy and Astrophysics, 2021, 21, 125. | 1.7 | 8 |
| 14 | Long-term X-ray observations of seyfert 1 galaxy ark 120: on the origin of soft-excess. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3111-3127. | 4.4 | 10 |
| 15 | Accretion Flow Properties of GRS 1915+105 During Its Î¸ Class Using AstroSat Data. Astrophysical Journal, 2021, 916, 68. | 4.5 | 4 |
| 16 | Accretion flow properties of GRS 1716-249 during its 2016â€“17 â€˜failedâ€™ outburst. Astrophysics and Space Science, 2021, 366, 1. | 1.4 | 7 |
| 17 | Radiative transfer modeling of the observed line profiles in G31.41+0.31. Advances in Space Research, 2021, 69, 415-415. | 2.6 | 3 |
| 18 | Energetic electron precipitation during lightning activities over Indian landmass as observed from WWLLN and NOAA-15 satellite. Advances in Space Research, 2021, 68, 4205-4205. | 2.6 | 2 |

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|---|---|---|---|
| 19 | AstroSat observation of non-resonant type-C QPOs in MAXI J1535-571. Astrophysics and Space Science, 2021, 366, 1. | 1.4 | 4 |
| 20 | Chemical Complexity of Phosphorous-bearing Species in Various Regions of the Interstellar Medium. Astronomical Journal, 2021, 162, 119. | 4.7 | 12 |
| 21 | Pre-Seismic Irregularities during the 2020 Samos (Greece) Earthquake (M = 6.9) as Investigated from Multi-Parameter Approach by Ground and Space-Based Techniques. Atmosphere, 2021, 12, 1059. | 2.3 | 33 |
| 22 | Background model of phoswich X-ray detector on board small balloon. Advances in Space Research, 2021, 68, 3052-3063. | 2.6 | 2 |
| 23 | Spectral Signature of Mass Outflow in the Two Component Advective Flow Paradigm. Astrophysical Journal, 2021, 920, 41. | 4.5 | 8 |
| 24 | Is There Any Linkage between Interstellar Aldehyde and Alcohol?. Astrophysical Journal, 2021, 922, 194. | 4.5 | 8 |
| 25 | Simulation of cosmic rays in the Earthâ€™s atmosphere and interpretation of observed counts in an X-ray detector at balloon altitude near tropical region. Advances in Space Research, 2020, 65, 189-197. | 2.6 | 9 |
| 26 | Effects of Magnetic Field Loops on the Dynamics of Advective Accretion Flows and Jets around a Schwarzschild Black Hole. Astrophysical Journal, 2020, 888, 59. | 4.5 | 4 |
| 27 | Time-domain variability properties of XTE J1650â^’500 during its 2001 outburst: evidence of discâ€“jet connection. Monthly Notices of the Royal Astronomical Society, 2020, 497, 4222-4230. | 4.4 | 5 |
| 28 | Radio aeronomy in Nigeria: First results from very low frequency (VLF) radio waves receiving station at Anchor University, Lagos. , 2020, , . | | 1 |
| 29 | Simulation of atmospheric drag effect on low Earth orbit satellites during intervals of perturbed and quiet geomagnetic conditions in the magnetosphere-ionosphere system. , 2020, , . | | 1 |
| 30 | Identification of Prebiotic Molecules Containing Peptide-like Bonds in a Hot Molecular Core, G10.47+0.03. Astrophysical Journal, 2020, 895, 86. | 4.5 | 36 |
| 31 | Numerical modeling of seasonal and diurnal variations of lower ionospheric reflection parameters based on IRI model. , 2020, , . | | 0 |
| 32 | Study the Ionospheric Total Electron Content (TEC) variation during Geomagnetic Storm in 24th Solar Cycle. , 2020, , . | | 1 |
| 33 | Contaminated effect of Geomagnetic storm on pre-seismic atmospheric and ionospheric anomalies during Imphal earthquake.. , 2020, , . | | 0 |
| 34 | Surface Latent Heat Flux Anomaly: A thermal precursory effect of large Earthquake. , 2020, , . | | 0 |
| 35 | Accretion Flow Evolution of a New Black Hole Candidate MAXI J1348â€“630 during the 2019 Outburst. Astrophysical Journal, 2020, 897, 3. | 4.5 | 28 |
| 36 | Inference on accretion flow properties of XTEÂJ1752-223 during its 2009-10 outburst. Monthly Notices of the Royal Astronomical Society, 2020, 493, 2452-2462. | 4.4 | 18 |

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| 37 | Systematic Study on the Absorption Features of Interstellar Ices in the Presence of Impurities. ACS Earth and Space Chemistry, 2020, 4, 920-946. | 2.7 | 6 |
| 38 | Accretion flow properties of XTE J1118+480 during its 2005 outburst. Research in Astronomy and Astrophysics, 2020, 20, 175. | 1.7 | 9 |
| 39 | Spectral analysis of Ï‡ class data of GRS 1915+105 using TCAF solution. Research in Astronomy and Astrophysics, 2020, 20, 208. | 1.7 | 5 |
| 40 | Inference on disk-jet connection of MAXI J1836â€“194 from spectral analysis with the TCAF solution. Research in Astronomy and Astrophysics, 2020, 20, 028. | 1.7 | 16 |
| 41 | Exploring the Possibility of Identifying Hydride and Hydroxyl Cations of Noble Gas Species in the Crab Nebula Filament. Astrophysical Journal, 2020, 902, 131. | 4.5 | 6 |
| 42 | Detection of Atmospheric Gravity Wave Activity during several Earthquakes. , 2020, , . | | 0 |
| 43 | Spectral Properties of NGC 4151 and the Estimation of Black Hole Mass Using TCAF Solution. Astrophysical Journal, 2019, 877, 65. | 4.5 | 10 |
| 44 | Chemical and radiative transfer modeling of propylene oxide. Astronomy and Astrophysics, 2019, 628, A73. | 5.1 | 11 |
| 45 | Detection of Crab radiation with a meteorological balloon borne phoswich detector. Experimental Astronomy, 2019, 47, 345-358. | 3.7 | 6 |
| 46 | Comparative study of the possible lower ionospheric anomalies in very low frequency (VLF) signal during Honshu, 2011 and Nepal, 2015 earthquakes. Geomatics, Natural Hazards and Risk, 2019, 10, 1596-1612. | 4.3 | 23 |
| 47 | Comparative study of charged particle precipitation from Van Allen radiation belts as observed by NOAA satellites during a land earthquake and an ocean earthquake. Advances in Space Research, 2019, 64, 719-732. | 2.6 | 12 |
| 48 | Anomalous outbursts of H 1743-322. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4045-4051. | 4.4 | 3 |
| 49 | Timing Properties of Shocked Accretion Flows around Neutron Stars in the Presence of Cooling. Astrophysical Journal, 2019, 873, 119. | 4.5 | 4 |
| 50 | Multi-frequency properties of an interacting narrow-angle tail radio galaxy J0037+18. Astrophysics and Space Science, 2019, 364, 1. | 1.4 | 6 |
| 51 | Evolution of X-Ray Properties of MAXI J1535-571: Analysis with the TCAF Solution. Astrophysical Journal, 2019, 875, 4. | 4.5 | 45 |
| 52 | Implications for accretion flow dynamics from a spectral study of SwiftÂJ1357.2â€“0933. Monthly Notices of the Royal Astronomical Society, 2019, 483, 1178-1183. | 4.4 | 7 |
| 53 | Does Cyg X-1 have a small accretion disc?. Monthly Notices of the Royal Astronomical Society, 2019, 484, 5802-5809. | 4.4 | 7 |
| 54 | Discovery of Jet-Induced Soft Lags of XTE J1550-564 during Its 1998 Outburst â€. Proceedings (mdpi), 2019, 17, 8. | 0.2 | 2 |

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| 55 | General relativistic numerical simulation of sub-Keplerian transonic accretion flows on to rotating black holes: Kerr spaceâ€“time. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3636-3645. | 4.4 | 10 |
| 56 | Properties of the black hole candidate XTE J1118+480 with the TCAF solution during its jet activity induced 2000 outburst. Astrophysics and Space Science, 2019, 364, 1. | 1.4 | 24 |
| 57 | Development of instruments for space exploration using meteorological balloons. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1. | 1.8 | 4 |
| 58 | Evidence of Outflow-induced Soft Lags of Galactic Black Holes. Astrophysical Journal, 2019, 886, 137. | 4.5 | 6 |
| 59 | Chemical Modeling for Predicting the Abundances of Certain Aldimines and Amines in Hot Cores. Astrophysical Journal, 2018, 853, 139. | 4.5 | 25 |
| 60 | Interstellar hydrogen bonding. Advances in Space Research, 2018, 61, 2870-2880. | 2.6 | 18 |
| 61 | Images and spectra of time-dependent two-component advective flow in presence of outflows. Monthly Notices of the Royal Astronomical Society, 2018, 478, 3356-3366. | 4.4 | 8 |
| 62 | An Approach to Estimate the Binding Energy of Interstellar Species. Astrophysical Journal, Supplement Series, 2018, 237, 9. | 7.7 | 37 |
| 63 | Modeling D-region ionospheric response of the Great American TSE of August 21, 2017 from VLF signal perturbation. Advances in Space Research, 2018, 62, 651-661. | 2.6 | 21 |
| 64 | Evolution of accretion disc geometry of GRSâ€‰1915+105 during its Ï‡ state as revealed by TCAF solution. Monthly Notices of the Royal Astronomical Society, 2018, 479, 2183-2192. | 4.4 | 8 |
| 65 | A Search for Interstellar Monohydric Thiols. Astrophysical Journal, 2017, 836, 70. | 4.5 | 32 |
| 66 | The Possibility of Forming Propargyl Alcohol in the Interstellar Medium. Molecular Astrophysics, 2017, 6, 36-46. | 1.6 | 15 |
| 67 | Adsorption energies of H and H2: a quantum-chemical study. European Physical Journal D, 2017, 71, 1. | 1.3 | 12 |
| 68 | ESTIMATION OF MASS OF COMPACT OBJECT IN H 1743-322 FROM 2010 AND 2011 OUTBURSTS USING TCAF SOLUTION AND SPECTRAL INDEXâ€“QPO FREQUENCY CORRELATION. Astrophysical Journal, 2017, 834, 88. | 4.5 | 46 |
| 69 | Hydrodynamic simulations of accretion flows with time-varying viscosity. Monthly Notices of the Royal Astronomical Society, 2017, 472, 4689-4699. | 4.4 | 10 |
| 70 | Dynamics of magnetic flux tubes in an advective flow around a black hole. Monthly Notices of the Royal Astronomical Society, 2017, 472, 1259-1271. | 4.4 | 6 |
| 71 | Modeling of temporal variation of very low frequency radio waves over long paths as observed from Indian Antarctic stations. Journal of Geophysical Research: Space Physics, 2017, 122, 7698-7712. | 2.4 | 11 |
| 72 | Monte Carlo simulations of thermal comptonization process in a two-component advective flow around a neutron star. Monthly Notices of the Royal Astronomical Society, 2017, 472, 1361-1371. | 4.4 | 5 |

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| 73 | The 2004 outburst of BHC H1743-322: analysis of spectral and timing properties using the TCAF solution. Monthly Notices of the Royal Astronomical Society, 2017, 466, 1372-1381. | 4.4 | 36 |
| 74 | Effects of the major sudden stratospheric warming event of 2009 on the subionospheric very low frequency/low frequency radio signals. Journal of Geophysical Research: Space Physics, 2017, 122, 7555-7566. | 2.4 | 9 |
| 75 | Temporal evolution of photon energy emitted from two-component advective flows: origin of time lag. Monthly Notices of the Royal Astronomical Society, 2017, 472, 1842-1849. | 4.4 | 12 |
| 76 | Possible Range of Viscosity Parameters to Trigger Black Hole Candidates to Exhibit Different States of Outbursts. Astrophysical Journal, 2017, 850, 47. | 4.5 | 17 |
| 77 | Properties of X-Ray Flux of Jets during the 2005 Outburst of Swift J1753.5â˜’0127 Using the TCAF Solution. Astrophysical Journal, 2017, 850, 91. | 4.5 | 27 |
| 78 | Accretion Flow Properties of Swift J1753.5-0127 during Its 2005 Outburst. Astrophysical Journal, 2017, 850, 92. | 4.5 | 28 |
| 79 | Study of high energy phenomena from near space using low-cost meteorological balloons. Experimental Astronomy, 2017, 43, 311-338. | 3.7 | 8 |
| 80 | Images and spectral properties of two-component advective flows around black holes: effects of photon bending. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3902-3912. | 4.4 | 13 |
| 81 | General relativistic numerical simulation of sub-Keplerian transonic accretion flows on to black holes: Schwarzschild spaceâ€“time. Monthly Notices of the Royal Astronomical Society, 2017, 472, 542-549. | 4.4 | 8 |
| 82 | Study of accretion processes around black holes becomes â€˜Scienceâ€™: Tell tale observational signatures of two component advective flows. , 2017, , . | | 6 |
| 83 | Evolution of spectral and temporal properties of MAXI J1836-194 during 2011 outburst. , 2017, , . | | 1 |
| 84 | Study of shock propagation velocity and accretion flow dynamics around the black hole candidate H1743-322. , 2017, , . | | 0 |
| 85 | Temporal and spectral properties of MAXI J1659-152 during its 2010 outburst. , 2017, , . | | 0 |
| 86 | Accretion flow dynamics of a few transient black hole candidates from their spectral evolution study using TCAF solution. , 2017, , . | | 0 |
| 87 | Possible ASTROSAT observation of transient black hole candidates to study spectral and timing properties with TCAF solution. , 2017, , . | | 0 |
| 88 | Variation of geometry of accretion flows of compact objects as inferred from spectral studies. , 2017, , . | | 0 |
| 89 | Inclination effects and time variability properties of black hole transients. , 2017, , . | | 0 |
| 90 | Impacts of photon bending on observational aspects of two component advective flow. , 2017, , . | | 0 |

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| 91 | UPPER LIMIT OF THE VISCOSITY PARAMETER IN ACCRETION FLOWS AROUND A BLACK HOLE WITH SHOCK WAVES. Astrophysical Journal, 2016, 816, 7. | 4.5 | 4 |
| 92 | ACCRETION FLOW DYNAMICS OF MAXIÂJ1836-194 DURING ITS 2011 OUTBURST FROM TCAF SOLUTION. Astrophysical Journal, 2016, 819, 107. | 4.5 | 58 |
| 93 | ACCRETION FLOW PROPERTIES OF MAXI J1543â€“564 DURING 2011 OUTBURST FROM THE TCAF SOLUTION. Astrophysical Journal, 2016, 827, 88. | 4.5 | 52 |
| 94 | SYSTEMATIC THEORETICAL STUDY ON THE INTERSTELLAR CARBON CHAIN MOLECULES. Astrophysical Journal, 2016, 832, 144. | 4.5 | 34 |
| 95 | Inverse problem in ionospheric science: prediction of solar soft-X-ray spectrum from very low frequency radiosonde results. Astrophysics and Space Science, 2016, 361, 1. | 1.4 | 10 |
| 96 | TEMPORAL VARIABILITY FROM THE TWO-COMPONENT ADVECTIVE FLOW SOLUTION AND ITS OBSERVATIONAL EVIDENCE. Astrophysical Journal, 2016, 828, 101. | 4.5 | 19 |
| 97 | Viscosity parameter in dissipative accretion flows with mass outflow around black holes. Monthly Notices of the Royal Astronomical Society, 2016, 462, 850-857. | 4.4 | 11 |
| 98 | Spectral study of GX 339-4 with TCAF using Swift and NuSTAR observation. Astrophysics and Space Science, 2016, 361, 1. | 1.4 | 29 |
| 99 | Estimation of the mass of the black hole candidate MAXIÂJ1659â˜’152 using TCAF and POS models. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3163-3169. | 4.4 | 49 |
| 100 | Modeling of the lower ionospheric response and VLF signal modulation during a total solar eclipse using ionospheric chemistry and LWPC. Astrophysics and Space Science, 2016, 361, 1. | 1.4 | 14 |
| 101 | Deuterium enrichment of the interstellar grain mantle. Monthly Notices of the Royal Astronomical Society, 2016, 455, 540-551. | 4.4 | 25 |
| 102 | Potential formation of three pyrimidine bases in interstellar regions. Astrophysics and Space Science, 2015, 360, 1. | 1.4 | 6 |
| 103 | Modeling of longâ€path propagation characteristics of VLF radio waves as observed from Indian Antarctic station Maitri. Journal of Geophysical Research: Space Physics, 2015, 120, 8872-8883. | 2.4 | 7 |
| 104 | A COMPARATIVE STUDY OF THE TIMING AND THE SPECTRAL PROPERTIES DURING TWO RECENT OUTBURSTS (2010 AND 2011) OF H 1743-322. , 2015, , . | | 0 |
| 105 | PROPERTIES OF THE PROPAGATING OSCILLATORY SHOCK WAVE IN THE ACCRETION FLOWS AROUND FEW TRANSIENT BLACK HOLE CANDIDATES DURING THEIR OUTBURSTS. , 2015, , . | | 0 |
| 106 | Resonance condition and low-frequency quasi-periodic oscillations of the outbursting source H1743â˜’322. Monthly Notices of the Royal Astronomical Society, 2015, 452, 3451-3456. | 4.4 | 48 |
| 107 | Segregation of a Keplerian disc and sub-Keplerian halo from a transonic flow around a black hole by viscosity and cooling processes. Monthly Notices of the Royal Astronomical Society, 2015, 448, 3221-3228. | 4.4 | 22 |
| 108 | IS COMPTON COOLING SUFFICIENT TO EXPLAIN EVOLUTION OF OBSERVED QUASI-PERIODIC OSCILLATIONS IN OUTBURST SOURCES?. Astrophysical Journal, 2015, 798, 57. | 4.5 | 26 |

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| 109 | Monte Carlo simulation to investigate the formation of molecular hydrogen and its deuterated forms. New Astronomy, 2015, 38, 23-30. | 1.8 | 15 |
| 110 | METHYL ACETATE AND ITS SINGLY DEUTERATED ISOTOPOMERS IN THE INTERSTELLAR MEDIUM. Astrophysical Journal, 2015, 808, 21. | 4.5 | 30 |
| 111 | Theoretical study of lower ionospheric response to solar flares: sluggishness of D-region and peak time delay. Astrophysics and Space Science, 2015, 356, 19-28. | 1.4 | 19 |
| 112 | ACCRETION FLOW DYNAMICS OF MAXI J1659-152 FROM THE SPECTRAL EVOLUTION STUDY OF ITS 2010 OUTBURST USING THE TCAF SOLUTION. Astrophysical Journal, 2015, 803, 59. | 4.5 | 42 |
| 113 | Characterization of GX 339-4 outburst of 2010â€“11: analysis by xspec using two component advective flow model. Monthly Notices of the Royal Astronomical Society, 2015, 447, 1984-1995. | 4.4 | 54 |
| 114 | Comptonizing Efficiencies of IGR 17091-3624 and its similarity to GRS 1915+105. Advances in Space Research, 2015, 56, 1784-1792. | 2.6 | 8 |
| 115 | Search for interstellar adenine. Astrophysics and Space Science, 2015, 357, 1. | 1.4 | 17 |
| 116 | On the use of Very Low Frequency transmitter data for remote sensing of atmospheric gravity and planetary waves. Advances in Space Research, 2015, 55, 1190-1198. | 2.6 | 16 |
| 117 | Deuterium enrichment of the interstellar medium. New Astronomy, 2015, 35, 53-70. | 1.8 | 28 |
| 118 | Theoretical Model of Drag Force Impact on a Model International Space Station Satellite due to Solar Activity. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2014, 12, 47-53. | 0.2 | 8 |
| 119 | Effect of solar flares on ionospheric VLF radio wave propagation, modeling with GEANT4 and LWPC and determination of effective reflection height. , 2014, , . | | 2 |
| 120 | FORMATION OF DIFFERENT ISOTOPOMERS OF CHLORONIUM IN THE INTERSTELLAR MEDIUM. Astrophysical Journal, 2014, 782, 73. | 4.5 | 19 |
| 121 | Remote sensing of atmospheric gravity waves (GWs) and planetary wave type oscillations (PWTOs) in the upper mesosphere-lower ionosphere system using the very low frequency transmitter data. , 2014, , . | | 2 |
| 122 | Study of long path VLF signal propagation characteristics as observed from Indian Antarctic station, Maitri. , 2014, , . | | 0 |
| 123 | Quasi-periodic oscillations in a radiative transonic flow: results of a coupled Monte Carloâ€“tvd simulation. Monthly Notices of the Royal Astronomical Society, 2014, 437, 1329-1336. | 4.4 | 31 |
| 124 | Implementation of two-component advective flow solution in <scp>xspec</scp>. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 440, L121-L125. | 3.3 | 70 |
| 125 | Correlation between seismic events and anomalous VLF day-length for west-east and east-west propagation paths. , 2014, , . | | 0 |
| 126 | Studies of precursors of earthquakes using anomalies in very low frequency signal. , 2014, , . | | 0 |

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|---|---|---|---|
| 127 | Study of low-latitude ionospheric D-region negative ion profile during an M-class solar flare using VLF propagation effects. , 2014, , . | | 0 |
| 128 | Low latitude sub-ionospheric VLF signal behaviour during the two recent solar eclipses: Observation and simulation. , 2014, , . | | 0 |
| 129 | INFERENCE ON ACCRETION FLOW DYNAMICS USING TCAF SOLUTION FROM THE ANALYSIS OF SPECTRAL EVOLUTION OF H 1743-322 DURING THE 2010 OUTBURST. Astrophysical Journal, 2014, 786, 4. | 4.5 | 60 |
| 130 | Spectral signatures of dissipative standing shocks and mass outflow in presence of Comptonization around a black hole. Astrophysics and Space Science, 2014, 353, 223-231. | 1.4 | 21 |
| 131 | Study of long path VLF signal propagation characteristics as observed from Indian Antarctic station, Maitri. Advances in Space Research, 2014, 54, 1619-1628. | 2.6 | 13 |
| 132 | Unusual behavior of Very Low Frequency signal during the earthquake at Honshu/Japan on 11 March, 2011. Indian Journal of Physics, 2014, 88, 1013-1019. | 1.8 | 26 |
| 133 | Studies of VLF signal anomalies due to earthquake. , 2014, , . | | 0 |
| 134 | A study of magnetosphere-ionosphere coupling as a precursory indicator of Earthquake. , 2014, , . | | 0 |
| 135 | Studies of seismo-ionospheric correlations using anomalies in phase of very low frequency signal. , 2014, , . | | 0 |
| 136 | Unusual shifts in terminator times of the VLF signals before the Pakistan earthquake (M=7.4), occurred on 18th Jan., 2011. , 2014, , . | | 0 |
| 137 | Spectroscopic characteristics of the cyanomethyl anion and its deuterated derivatives. Astronomy and Astrophysics, 2014, 562, A56. | 5.1 | 13 |
| 138 | Chemical evolution during the process of proto-star formation by considering a two dimensional hydrodynamic model. New Astronomy, 2013, 23-24, 118-125. | 1.8 | 19 |
| 139 | Evolution of the temporal and the spectral properties in 2010 and 2011 outbursts of H 1743-322. Advances in Space Research, 2013, 52, 2143-2155. | 2.6 | 43 |
| 140 | Effective recombination coefficient and solar zenith angle effects on low-latitude D-region ionosphere evaluated from VLF signal amplitude and its time delay during X-ray solar flares. Astrophysics and Space Science, 2013, 348, 315-326. | 1.4 | 48 |
| 141 | Study of the chemical evolution and spectral signatures of some interstellar precursor molecules of adenine, glycine & alanine. New Astronomy, 2013, 20, 15-23. | 1.8 | 27 |
| 142 | Formation of cyanoformaldehyde in the interstellar space. Monthly Notices of the Royal Astronomical Society, 2013, 433, 3152-3164. | 4.4 | 24 |
| 143 | Hydrodynamic simulation of two-component advective flows around black holes. Monthly Notices of the Royal Astronomical Society, 2013, 430, 2836-2843. | 4.4 | 63 |
| 144 | Spectral properties of two-component advective flows with standing shocks in the presence of Comptonization. Monthly Notices of the Royal Astronomical Society, 2013, 431, 2716-2722. | 4.4 | 19 |

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| 145 | A 2D hydrodynamic simulation coupled to chemical evolution around star forming region: A time dependent study. , 2013, , . | | 0 |
| 146 | Role of ambipolar diffusion towards the chemical evolution of molecular cloud. , 2013, , . | | 0 |
| 147 | Quantum chemical approach to study the spectral properties of some important precursor of bio-molecules. , 2013, , . | | 0 |
| 148 | Monte Carlo simulation for the formation of interstellar grain mantle. , 2013, , . | | 0 |
| 149 | EFFECTS OF COMPTON COOLING ON OUTFLOW IN A TWO-COMPONENT ACCRETION FLOW AROUND A BLACK HOLE: RESULTS OF A COUPLED MONTE CARLO TOTAL VARIATION DIMINISHING SIMULATION. Astrophysical Journal, 2012, 758, 114. | 4.5 | 33 |
| 150 | Detection of ionospheric perturbation due to a soft gamma ray repeater SGR J1550-5418 by very low frequency radio waves. Astrophysics and Space Science, 2012, 341, 259-264. | 1.4 | 18 |
| 151 | First ever VLF monitoring of the lunar occultation of a solar flare during the 2010 annular solar eclipse and its effects on the D-region electron density profile. Planetary and Space Science, 2012, 73, 310-317. | 1.7 | 24 |
| 152 | Modeling of sub-ionospheric VLF signal perturbations associated with total solar eclipse, 2009 in Indian subcontinent. Advances in Space Research, 2012, 50, 196-204. | 2.6 | 38 |
| 153 | Accretion flow dynamics during the evolution of timing and spectral properties of GX 339-4 during its 2010â€“11 outburst. Astronomy and Astrophysics, 2012, 542, A56. | 5.1 | 128 |
| 154 | Precursory effects in the nighttime VLF signal amplitude for the 18th January, 2011 Pakistan earthquake. Indian Journal of Physics, 2012, 86, 85-88. | 1.8 | 45 |
| 155 | VLF signals in summer and winter in the Indian sub-continent using multi-station campaigns. Indian Journal of Physics, 2012, 86, 323-334. | 1.8 | 40 |
| 156 | Hydrodynamic simulations of viscous accretion flows around black holes. Monthly Notices of the Royal Astronomical Society, 2012, , no-no. | 4.4 | 6 |
| 157 | SEQUENCING THE VARIABILITY CLASSES OF GRS 1915+105. , 2012, , . | | 0 |
| 158 | Effects of Compton cooling on the hydrodynamic and the spectral properties of a two-component accretion flow around a black hole. Monthly Notices of the Royal Astronomical Society, 2011, 416, 959-971. | 4.4 | 26 |
| 159 | Composition and evolution of interstellar grain mantle under the effects of photodissociation. Monthly Notices of the Royal Astronomical Society, 2011, 418, 545-555. | 4.4 | 35 |
| 160 | Instruments of RT-2 experiment onboard CORONAS-PHOTON and their test and evaluation III: Coded Aperture Mask and Fresnel Zone Plates in RT-2/CZT payload. Experimental Astronomy, 2011, 29, 55-84. | 3.7 | 10 |
| 161 | Instruments of RT-2 experiment onboard CORONASâ€“PHOTON and their test and evaluation V: onboard software, data structure, telemetry and telecommand. Experimental Astronomy, 2011, 29, 109-133. | 3.7 | 3 |
| 162 | Instruments of RT-2 experiment onboard CORONAS-PHOTON and their test and evaluation II: RT-2/CZT payload. Experimental Astronomy, 2011, 29, 27-54. | 3.7 | 9 |

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| 163 | Instruments of RT-2 experiment onboard CORONAS-PHOTON and their test and evaluation I: ground calibration of RT-2/S and RT-2/G. Experimental Astronomy, 2011, 29, 1-25. | 3.7 | 5 |
| 164 | Instruments of RT-2 experiment onboard CORONAS-PHOTON and their test and evaluation IV: background simulations using GEANT-4 toolkit. Experimental Astronomy, 2011, 29, 85-107. | 3.7 | 9 |
| 165 | A comparative study of VLF signals from several transmitters around the world as observed from Maitri station, Antarctica. , 2011, , . | | 1 |
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