

Sandip K Chakrabarti

List of Publications by Year in descending order

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225
papers

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1139
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#	ARTICLE	IF	CITATIONS
1	Standing Rankine-Hugoniot shocks in the hybrid model flows of the black hole accretion and winds. <i>Astrophysical Journal</i> , 1989, 347, 365.	4.5	236
2	Resonance Oscillation of Radiative Shock Waves in Accretion Disks around Compact Objects. <i>Astrophysical Journal</i> , 1996, 457, 805.	4.5	212
3	Grand Unification of Solutions of Accretion and Winds around Black Holes and Neutron Stars. <i>Astrophysical Journal</i> , 1996, 464, 664.	4.5	170
4	Correlation among Quasi-Periodic Oscillation Frequencies and Quiescent-State Duration in Black Hole Candidate GRS 1915+105. <i>Astrophysical Journal</i> , 2000, 531, L41-L44.	4.5	131
5	Accretion flow dynamics during the evolution of timing and spectral properties of GX 339-4 during its 2010 outburst. <i>Astronomy and Astrophysics</i> , 2012, 542, A56.	5.1	128
6	Simulation of thick accretion disks with standing shocks by smoothed particle hydrodynamics. <i>Astrophysical Journal</i> , 1994, 425, 161.	4.5	114
7	Zero-Energy Rotating Accretion Flows near a Black Hole. <i>Astrophysical Journal</i> , 1997, 474, 378-388.	4.5	105
8	Smoothed Particle Hydrodynamics Confronts Theory: Formation of Standing Shocks in Accretion Disks and Winds around Black Holes. <i>Astrophysical Journal</i> , 1993, 417, 671.	4.5	90
9	Numerical Simulations of Standing Shocks in Accretion Flows around Black Holes: A Comparative Study. <i>Astrophysical Journal</i> , 1996, 470, 460.	4.5	90
10	Spectral Properties of Accretion Disks around Black Holes. II. Sub-Keplerian Flows with and without Shocks. <i>Astrophysical Journal</i> , 1997, 484, 313-322.	4.5	81
11	Properties of accretion shock waves in viscous flows around black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 349, 649-664.	4.4	75
12	On the Spectral Slopes of Hard X-Ray Emission from Black Hole Candidates. <i>Publication of the Astronomical Society of Japan</i> , 1996, 48, 59-65.	2.5	72
13	Evolution of the quasi-periodic oscillation frequency in GRO J1655-40 – Implications for accretion disk dynamics. <i>Astronomy and Astrophysics</i> , 2008, 489, L41-L44.	5.1	72
14	Implementation of two-component advective flow solution in <code>xspec</code> . <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2014, 440, L121-L125.	3.3	70
15	The effect of cooling on time dependent behaviour of accretion flows around black holes. <i>Astronomy and Astrophysics</i> , 2004, 421, 1-8.	5.1	70
16	Viscosity prescriptions in accretion discs with shock waves. <i>Monthly Notices of the Royal Astronomical Society</i> , 1995, 272, 80-88.	4.4	63
17	Hydrodynamic simulation of two-component advective flows around black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 2836-2843.	4.4	63
18	INFERENCE ON ACCRETION FLOW DYNAMICS USING TCAF SOLUTION FROM THE ANALYSIS OF SPECTRAL EVOLUTION OF H 1743-322 DURING THE 2010 OUTBURST. <i>Astrophysical Journal</i> , 2014, 786, 4.	4.5	60

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19	Properties of the propagating shock wave in the accretion flow around GX 339-4 in the 2010 outburst. <i>Astronomy and Astrophysics</i> , 2010, 520, A98.	5.1	58
20	ACCRETION FLOW DYNAMICS OF MAXI J1836-194 DURING ITS 2011 OUTBURST FROM TCAF SOLUTION. <i>Astrophysical Journal</i> , 2016, 819, 107.	4.5	58
21	Smoothed particle hydrodynamic simulations of viscous accretion discs around black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998, 299, 799-804.	4.4	56
22	Mass outflow rate from accretion discs around compact objects. <i>Classical and Quantum Gravity</i> , 1999, 16, 3879-3901.	4.0	55
23	Characterization of GX 339-4 outburst of 2010: analysis by xspec using two component advective flow model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 1984-1995.	4.4	54
24	ACCRETION FLOW PROPERTIES OF MAXI J1543-564 DURING 2011 OUTBURST FROM THE TCAF SOLUTION. <i>Astrophysical Journal</i> , 2016, 827, 88.	4.5	52
25	Estimation of the mass of the black hole candidate MAXI J1659-152 using TCAF and POS models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 3163-3169.	4.4	49
26	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. <i>Astrophysics and Space Science</i> , 2013, 348, 315-326.	1.4	48
27	Resonance condition and low-frequency quasi-periodic oscillations of the outbursting source H1743-322. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 3451-3456.	4.4	48
28	ESTIMATION OF MASS OF COMPACT OBJECT IN H 1743-322 FROM 2010 AND 2011 OUTBURSTS USING TCAF SOLUTION AND SPECTRAL INDEX-QPO FREQUENCY CORRELATION. <i>Astrophysical Journal</i> , 2017, 834, 88.	4.5	46
29	Precursory effects in the nighttime VLF signal amplitude for the 18th January, 2011 Pakistan earthquake. <i>Indian Journal of Physics</i> , 2012, 86, 85-88.	1.8	45
30	Evolution of X-Ray Properties of MAXI J1535-571: Analysis with the TCAF Solution. <i>Astrophysical Journal</i> , 2019, 875, 4.	4.5	45
31	Ejection of the inner accretion disk in GRS 1915+105: The magnetic rubber-band effect. <i>Astronomy and Astrophysics</i> , 2001, 380, 245-250.	5.1	44
32	Evolution of the temporal and the spectral properties in 2010 and 2011 outbursts of H 1743-322. <i>Advances in Space Research</i> , 2013, 52, 2143-2155.	2.6	43
33	ACCRETION FLOW DYNAMICS OF MAXI J1659-152 FROM THE SPECTRAL EVOLUTION STUDY OF ITS 2010 OUTBURST USING THE TCAF SOLUTION. <i>Astrophysical Journal</i> , 2015, 803, 59.	4.5	42
34	VLF signals in summer and winter in the Indian sub-continent using multi-station campaigns. <i>Indian Journal of Physics</i> , 2012, 86, 323-334.	1.8	40
35	Accretion flow behaviour during the evolution of the quasi-periodic oscillation frequency of XTE J1550-564 in 1998 outburst. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 394, 1463-1468.	4.4	39
36	Modeling of sub-ionospheric VLF signal perturbations associated with total solar eclipse, 2009 in Indian subcontinent. <i>Advances in Space Research</i> , 2012, 50, 196-204.	2.6	38

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37	An Approach to Estimate the Binding Energy of Interstellar Species. <i>Astrophysical Journal, Supplement Series</i> , 2018, 237, 9.	7.7	37
38	The 2004 outburst of BHC H1743-322: analysis of spectral and timing properties using the TCAF solution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 1372-1381.	4.4	36
39	Identification of Prebiotic Molecules Containing Peptide-like Bonds in a Hot Molecular Core, G10.47+0.03. <i>Astrophysical Journal</i> , 2020, 895, 86.	4.5	36
40	Effects of initial condition and cloud density on the composition of the grain mantle. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 409, 789-800.	4.4	35
41	Composition and evolution of interstellar grain mantle under the effects of photodissociation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 418, 545-555.	4.4	35
42	SYSTEMATIC THEORETICAL STUDY ON THE INTERSTELLAR CARBON CHAIN MOLECULES. <i>Astrophysical Journal</i> , 2016, 832, 144.	4.5	34
43	Formation of water and methanol in star forming molecular clouds. <i>Astronomy and Astrophysics</i> , 2008, 486, 209-220.	5.1	34
44	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. <i>Astrophysical Journal</i> , 2012, 758, 114.	4.5	33
45	Pre-Seismic Irregularities during the 2020 Samos (Greece) Earthquake (M = 6.9) as Investigated from Multi-Parameter Approach by Ground and Space-Based Techniques. <i>Atmosphere</i> , 2021, 12, 1059.	2.3	33
46	Observational evidence for mass ejection during soft X-ray dips in GRS 1915+105. <i>Astronomy and Astrophysics</i> , 2001, 370, L17-L21.	5.1	33
47	A Search for Interstellar Monohydric Thiols. <i>Astrophysical Journal</i> , 2017, 836, 70.	4.5	32
48	Effective grain surface area in the formation of molecular hydrogen in interstellar clouds. <i>Astronomy and Astrophysics</i> , 2006, 457, 167-170.	5.1	31
49	Quasi-periodic oscillations in a radiative transonic flow: results of a coupled Monte Carlo simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 1329-1336.	4.4	31
50	METHYL ACETATE AND ITS SINGLY DEUTERATED ISOTOPOMERS IN THE INTERSTELLAR MEDIUM. <i>Astrophysical Journal</i> , 2015, 808, 21.	4.5	30
51	Standing shocks in isothermal rotating winds and accretion. <i>Monthly Notices of the Royal Astronomical Society</i> , 1989, 240, 7-21.	4.4	29
52	Spectral study of GX 339-4 with TCAF using Swift and NuSTAR observation. <i>Astrophysics and Space Science</i> , 2016, 361, 1.	1.4	29
53	Time evolution of simple molecules during proto-star collapse. <i>New Astronomy</i> , 2008, 13, 457-467.	1.8	28
54	Deuterium enrichment of the interstellar medium. <i>New Astronomy</i> , 2015, 35, 53-70.	1.8	28

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55	Accretion Flow Properties of Swift J1753.5-0127 during Its 2005 Outburst. <i>Astrophysical Journal</i> , 2017, 850, 92.	4.5	28
56	Accretion Flow Evolution of a New Black Hole Candidate MAXI J1348-630 during the 2019 Outburst. <i>Astrophysical Journal</i> , 2020, 897, 3.	4.5	28
57	Magnetic activity in thick accretion disks and associated observable phenomena. 1: Flux expulsion. <i>Astrophysical Journal</i> , 1994, 424, 138.	4.5	28
58	Study of the chemical evolution and spectral signatures of some interstellar precursor molecules of adenine, glycine & alanine. <i>New Astronomy</i> , 2013, 20, 15-23.	1.8	27
59	Properties of X-Ray Flux of Jets during the 2005 Outburst of Swift J1753.5-0127 Using the TCAF Solution. <i>Astrophysical Journal</i> , 2017, 850, 91.	4.5	27
60	ON THE EVOLUTION OF ACCRETION RATES IN COMPACT OUTBURST SOURCES. <i>Astrophysical Journal Letters</i> , 2010, 710, L147-L150.	8.3	26
61	Hydrodynamic simulations of oscillating shock waves in a sub-Keplerian accretion flow around black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 403, 516-524.	4.4	26
62	Effects of Compton cooling on the hydrodynamic and the spectral properties of a two-component accretion flow around a black hole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 959-971.	4.4	26
63	Unusual behavior of Very Low Frequency signal during the earthquake at Honshu/Japan on 11 March, 2011. <i>Indian Journal of Physics</i> , 2014, 88, 1013-1019.	1.8	26
64	IS COMPTON COOLING SUFFICIENT TO EXPLAIN EVOLUTION OF OBSERVED QUASI-PERIODIC OSCILLATIONS IN OUTBURST SOURCES?. <i>Astrophysical Journal</i> , 2015, 798, 57.	4.5	26
65	Deuterium enrichment of the interstellar grain mantle. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 540-551.	4.4	25
66	Chemical Modeling for Predicting the Abundances of Certain Aldimines and Amines in Hot Cores. <i>Astrophysical Journal</i> , 2018, 853, 139.	4.5	25
67	PROPERTIES OF ACCRETION SHOCKS IN VISCOUS FLOWS WITH COOLING EFFECTS. <i>International Journal of Modern Physics D</i> , 2004, 13, 1955-1972.	2.1	24
68	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. <i>Planetary and Space Science</i> , 2012, 73, 310-317.	1.7	24
69	Formation of cyanoformaldehyde in the interstellar space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 3152-3164.	4.4	24
70	Properties of the black hole candidate XTE J1118+480 with the TCAF solution during its jet activity induced 2000 outburst. <i>Astrophysics and Space Science</i> , 2019, 364, 1.	1.4	24
71	Comparative study of the possible lower ionospheric anomalies in very low frequency (VLF) signal during Honshu, 2011 and Nepal, 2015 earthquakes. <i>Geomatics, Natural Hazards and Risk</i> , 2019, 10, 1596-1612.	4.3	23
72	Spectrum of Two-Component Flows around a Supermassive Black Hole: An Application to M87. <i>Astrophysical Journal</i> , 2008, 689, L17-L20.	4.5	22

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73	Segregation of a Keplerian disc and sub-Keplerian halo from a transonic flow around a black hole by viscosity and cooling processes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 3221-3228.	4.4	22
74	Standing Rankine-Hugoniot shocks in the hybrid model flows. II - Nonaxisymmetric self-similar solution. <i>Astrophysical Journal</i> , 1990, 362, 406.	4.5	22
75	Spectral signatures of dissipative standing shocks and mass outflow in presence of Comptonization around a black hole. <i>Astrophysics and Space Science</i> , 2014, 353, 223-231.	1.4	21
76	Modeling D-region ionospheric response of the Great American TSE of August 21, 2017 from VLF signal perturbation. <i>Advances in Space Research</i> , 2018, 62, 651-661.	2.6	21
77	Identification of Methyl Isocyanate and Other Complex Organic Molecules in a Hot Molecular Core, G31.41+0.31. <i>Astrophysical Journal</i> , 2021, 907, 108.	4.5	21
78	Studies of dissipative standing shock waves around black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 401, 2053-2058.	4.4	20
79	On the origin, acceleration and collimation of bipolar outflows and cosmic radio jets. <i>Monthly Notices of the Royal Astronomical Society</i> , 1992, 255, 255-260.	4.4	19
80	Chemical evolution during the process of proto-star formation by considering a two dimensional hydrodynamic model. <i>New Astronomy</i> , 2013, 23-24, 118-125.	1.8	19
81	Spectral properties of two-component advective flows with standing shocks in the presence of Comptonization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 2716-2722.	4.4	19
82	FORMATION OF DIFFERENT ISOTOPOMERS OF CHLORONIUM IN THE INTERSTELLAR MEDIUM. <i>Astrophysical Journal</i> , 2014, 782, 73.	4.5	19
83	Theoretical study of lower ionospheric response to solar flares: sluggishness of D-region and peak time delay. <i>Astrophysics and Space Science</i> , 2015, 356, 19-28.	1.4	19
84	TEMPORAL VARIABILITY FROM THE TWO-COMPONENT ADVECTIVE FLOW SOLUTION AND ITS OBSERVATIONAL EVIDENCE. <i>Astrophysical Journal</i> , 2016, 828, 101.	4.5	19
85	Detection of ionospheric perturbation due to a soft gamma ray repeater SGR J1550-5418 by very low frequency radio waves. <i>Astrophysics and Space Science</i> , 2012, 341, 259-264.	1.4	18
86	Interstellar hydrogen bonding. <i>Advances in Space Research</i> , 2018, 61, 2870-2880.	2.6	18
87	Inference on accretion flow properties of XTE J1752-223 during its 2009-10 outburst. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 2452-2462.	4.4	18
88	Magnetic activity in thick accretion disks and associated observable phenomena. 2: Flux storage. <i>Astrophysical Journal</i> , 1994, 424, 149.	4.5	18
89	Unusual Surface Latent Heat Flux Variations and Their Critical Dynamics Revealed before Strong Earthquakes. <i>Entropy</i> , 2022, 24, 23.	2.2	18
90	Search for interstellar adenine. <i>Astrophysics and Space Science</i> , 2015, 357, 1.	1.4	17

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91	Possible Range of Viscosity Parameters to Trigger Black Hole Candidates to Exhibit Different States of Outbursts. <i>Astrophysical Journal</i> , 2017, 850, 47.	4.5	17
92	On the use of Very Low Frequency transmitter data for remote sensing of atmospheric gravity and planetary waves. <i>Advances in Space Research</i> , 2015, 55, 1190-1198.	2.6	16
93	On the Ejection Mechanism of Bullets in SS 433. <i>Astrophysical Journal</i> , 2002, 576, L45-L48.	4.5	16
94	Inference on disk-jet connection of MAXI J1836-194 from spectral analysis with the TCAF solution. <i>Research in Astronomy and Astrophysics</i> , 2020, 20, 028.	1.7	16
95	Monte Carlo simulation to investigate the formation of molecular hydrogen and its deuterated forms. <i>New Astronomy</i> , 2015, 38, 23-30.	1.8	15
96	The Possibility of Forming Propargyl Alcohol in the Interstellar Medium. <i>Molecular Astrophysics</i> , 2017, 6, 36-46.	1.6	15
97	MONTE CARLO SIMULATIONS OF THE THERMAL COMPTONIZATION PROCESS IN A TWO-COMPONENT ACCRETION FLOW AROUND A BLACK HOLE. <i>International Journal of Modern Physics D</i> , 2009, 18, 1693-1706.	2.1	14
98	Modeling of the lower ionospheric response and VLF signal modulation during a total solar eclipse using ionospheric chemistry and LWPC. <i>Astrophysics and Space Science</i> , 2016, 361, 1.	1.4	14
99	Study of long path VLF signal propagation characteristics as observed from Indian Antarctic station, Maitri. <i>Advances in Space Research</i> , 2014, 54, 1619-1628.	2.6	13
100	Images and spectral properties of two-component advective flows around black holes: effects of photon bending. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 3902-3912.	4.4	13
101	Spectroscopic characteristics of the cyanomethyl anion and its deuterated derivatives. <i>Astronomy and Astrophysics</i> , 2014, 562, A56.	5.1	13
102	MONTE CARLO SIMULATIONS OF THE THERMAL COMPTONIZATION PROCESS IN A TWO-COMPONENT ACCRETION FLOW AROUND A BLACK HOLE IN THE PRESENCE OF AN OUTFLOW. <i>International Journal of Modern Physics D</i> , 2010, 19, 607-620.	2.1	12
103	Adsorption energies of H and H ₂ : a quantum-chemical study. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	12
104	Temporal evolution of photon energy emitted from two-component advective flows: origin of time lag. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 1842-1849.	4.4	12
105	Comparative study of charged particle precipitation from Van Allen radiation belts as observed by NOAA satellites during a land earthquake and an ocean earthquake. <i>Advances in Space Research</i> , 2019, 64, 719-732.	2.6	12
106	Chemical Complexity of Phosphorous-bearing Species in Various Regions of the Interstellar Medium. <i>Astronomical Journal</i> , 2021, 162, 119.	4.7	12
107	Bending Instability of an Accretion Disk around a Black Hole. <i>Astrophysical Journal</i> , 2002, 563, L57-L60.	4.5	12
108	X-ray observation of SS 433 with RXTE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 359, 629-636.	4.4	11

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109	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
110	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
111	Chemical and radiative transfer modeling of propylene oxide. Astronomy and Astrophysics, 2019, 628, A73.	5.1	11
112	Rotating wind solution and the acceleration of the cosmic radio jets. Astrophysical Journal, 1986, 303, 582.	4.5	11
113	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
114	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
115	Hydrodynamic simulations of accretion flows with time-varying viscosity. Monthly Notices of the Royal Astronomical Society, 2017, 472, 4689-4699.	4.4	10
116	Spectral Properties of NGC 4151 and the Estimation of Black Hole Mass Using TCAF Solution. Astrophysical Journal, 2019, 877, 65.	4.5	10
117	General relativistic numerical simulation of sub-Keplerian transonic accretion flows on to rotating black holes: Kerr space-time. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3636-3645.	4.4	10
118	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
119	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
120	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
121	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
122	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
123	Simulation of cosmic rays in the Earth'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
124	Relation between Quiescence and Outbursting Properties of GX 339-4. Astrophysical Journal, 2021, 910, 138.	4.5	9
125	Effect of Binding Energies on the Encounter Desorption. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	9
126	Studying shocks in model astrophysical flows. Astrophysical Journal, 1989, 337, L89.	4.5	9

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127	Accretion flow properties of XTE J1118+480 during its 2005 outburst. <i>Research in Astronomy and Astrophysics</i> , 2020, 20, 175.	1.7	9
128	Theoretical Model of Drag Force Impact on a Model International Space Station Satellite due to Solar Activity. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2014, 12, 47-53.	0.2	8
129	Comptonizing Efficiencies of IGR 17091-3624 and its similarity to GRS 1915+105. <i>Advances in Space Research</i> , 2015, 56, 1784-1792.	2.6	8
130	Study of high energy phenomena from near space using low-cost meteorological balloons. <i>Experimental Astronomy</i> , 2017, 43, 311-338.	3.7	8
131	General relativistic numerical simulation of sub-Keplerian transonic accretion flows on to black holes: Schwarzschild space-time. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 542-549.	4.4	8
132	Images and spectra of time-dependent two-component advective flow in presence of outflows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 3356-3366.	4.4	8
133	Evolution of accretion disc geometry of GRS 1915+105 during its \dot{M} state as revealed by TCAF solution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 2183-2192.	4.4	8
134	Jet properties of XTE J1752+223 during its 2009-2010 outburst. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 4242-4251.	4.4	8
135	Accretion properties of MAXI J1813-095 during its failed outburst in 2018. <i>Research in Astronomy and Astrophysics</i> , 2021, 21, 125.	1.7	8
136	Spectral Signature of Mass Outflow in the Two Component Advective Flow Paradigm. <i>Astrophysical Journal</i> , 2021, 920, 41.	4.5	8
137	Is There Any Linkage between Interstellar Aldehyde and Alcohol?. <i>Astrophysical Journal</i> , 2021, 922, 194.	4.5	8
138	Direct and indirect evidence of pre-seismic electromagnetic emissions associated with two large earthquakes in Japan. <i>Natural Hazards</i> , 2022, 112, 2403-2432.	3.4	8
139	Modeling of long-path propagation characteristics of VLF radio waves as observed from Indian Antarctic station Maitri. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8872-8883.	2.4	7
140	Implications for accretion flow dynamics from a spectral study of Swift J1357.2-0933. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 1178-1183.	4.4	7
141	Does Cyg X-1 have a small accretion disc?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 5802-5809.	4.4	7
142	Accretion flow properties of GRS 1716-249 during its 2016-17 "failed" outburst. <i>Astrophysics and Space Science</i> , 2021, 366, 1.	1.4	7
143	Hydrodynamic simulations of viscous accretion flows around black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, , no-no.	4.4	6
144	Potential formation of three pyrimidine bases in interstellar regions. <i>Astrophysics and Space Science</i> , 2015, 360, 1.	1.4	6

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145	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
146	Detection of Crab radiation with a meteorological balloon borne phoswich detector. Experimental Astronomy, 2019, 47, 345-358.	3.7	6
147	Multi-frequency properties of an interacting narrow-angle tail radio galaxy J0037+18. Astrophysics and Space Science, 2019, 364, 1.	1.4	6
148	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
149	Study of accretion processes around black holes becomes "Science™: Tell tale observational signatures of two component advective flows. , 2017, , .		6
150	Evidence of Outflow-induced Soft Lags of Galactic Black Holes. Astrophysical Journal, 2019, 886, 137.	4.5	6
151	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
152	Satellite observations of thought experiments close to a black hole. Classical and Quantum Gravity, 2000, 17, 2427-2440.	4.0	5
153	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
154	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
155	Time-domain variability properties of XTE J1650 ⁺ 500 during its 2001 outburst: evidence of disc"jet connection. Monthly Notices of the Royal Astronomical Society, 2020, 497, 4222-4230.	4.4	5
156	Properties of Faint X-ray Activity of XTE J1908+094 in 2019. Galaxies, 2021, 9, 25.	3.0	5
157	Spectral analysis of $\dot{\Gamma}$ class data of GRS 1915+105 using TCAF solution. Research in Astronomy and Astrophysics, 2020, 20, 208.	1.7	5
158	Evidence for two-component flows around the black hole candidate XTE J1550 ⁺ 564 from spectral features during its 1998-1999 outburst. Monthly Notices of the Royal Astronomical Society, 2010, , .	4.4	4
159	UPPER LIMIT OF THE VISCOSITY PARAMETER IN ACCRETION FLOWS AROUND A BLACK HOLE WITH SHOCK WAVES. Astrophysical Journal, 2016, 816, 7.	4.5	4
160	Timing Properties of Shocked Accretion Flows around Neutron Stars in the Presence of Cooling. Astrophysical Journal, 2019, 873, 119.	4.5	4
161	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
162	Accretion Flow Properties of GRS 1915+105 During Its $\dot{\Gamma}$ Class Using AstroSat Data. Astrophysical Journal, 2021, 916, 68.	4.5	4

#	ARTICLE	IF	CITATIONS
163	AstroSat observation of non-resonant type-C QPOs in MAXI J1535-571. <i>Astrophysics and Space Science</i> , 2021, 366, 1.	1.4	4
164	Development of instruments for space exploration using meteorological balloons. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2019, 5, 1.	1.8	4
165	Interaction of accretion shocks with winds. <i>Journal of Astrophysics and Astronomy</i> , 2002, 23, 155-164.	1.0	3
166	Identification of Shocks in the Spectra from Black Holes. <i>Astrophysics and Space Science</i> , 2005, 297, 269-274.	1.4	3
167	Instruments of RT-2 experiment onboard CORONASâ€‘PHOTON and their test and evaluation V: onboard software, data structure, telemetry and telecommand. <i>Experimental Astronomy</i> , 2011, 29, 109-133.	3.7	3
168	Anomalous outbursts of H 1743-322. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 4045-4051.	4.4	3
169	Radiative transfer modeling of the observed line profiles in G31.41+0.31. <i>Advances in Space Research</i> , 2021, 69, 415-415.	2.6	3
170	Flux and spectral variability of Mrk 421 during its moderate activity state using NuSTAR: Possible accretion disc contribution?. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	3
171	Jets, disks and spectral states of black holes. <i>AIP Conference Proceedings</i> , 2001, , .	0.4	2
172	ACCRETION ONTO COMPACT OBJECTS VIEWED AS A FLOW IN CONVERGING-DIVERGING DUCTS. <i>International Journal of Modern Physics D</i> , 2008, 17, 799-814.	2.1	2
173	Fresnel zone plate telescopes for X-ray imaging II: numerical simulations with parallel and diverging beams. <i>Experimental Astronomy</i> , 2009, 27, 77-93.	3.7	2
174	Effect of solar flares on ionospheric VLF radio wave propagation, modeling with GEANT4 and LWPC and determination of effective reflection height. , 2014, , .		2
175	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
176	Discovery of Jet-Induced Soft Lags of XTE J1550-564 during Its 1998 Outburst â€“. <i>Proceedings (mdpi)</i> , 2019, 17, 8.	0.2	2
177	Study of Accretion Flow Dynamics of V404 Cygni during Its 2015 Outburst. <i>Galaxies</i> , 2021, 9, 39.	3.0	2
178	Energetic electron precipitation during lightning activities over Indian landmass as observed from WWLLN and NOAA-15 satellite. <i>Advances in Space Research</i> , 2021, 68, 4205-4205.	2.6	2
179	Background model of phoswich X-ray detector on board small balloon. <i>Advances in Space Research</i> , 2021, 68, 3052-3063.	2.6	2
180	Feasibility of spectro-photometry in X-rays (SPHINX) from the moon. <i>Experimental Astronomy</i> , 2010, 28, 61-77.	3.7	1

#	ARTICLE	IF	CITATIONS
181	A comparative study of VLF signals from several transmitters around the world as observed from Maitri station, Antarctica. , 2011, , .		1
182	Radio aeronomy in Nigeria: First results from very low frequency (VLF) radio waves receiving station at Anchor University, Lagos. , 2020, , .		1
183	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
184	Study the Ionospheric Total Electron Content (TEC) variation during Geomagnetic Storm in 24th Solar Cycle. , 2020, , .		1
185	Evolution of spectral and temporal properties of MAXI J1836-194 during 2011 outburst. , 2017, , .		1
186	Accretion around low mass and supermassive black holes with TCAF. , 2022, , .		1
187	Methanol formation: A Monte Carlo study. Proceedings of the International Astronomical Union, 2008, 4, 121-122.	0.0	0
188	QUASIPERIODIC OSCILLATIONS DUE TO AXISYMMETRIC AND NON-AXISYMMETRIC SHOCK OSCILLATIONS IN BLACK HOLE ACCRETION. , 2008, , .		0
189	A 2D hydrodynamic simulation coupled to chemical evolution around star forming region: A time dependent study. , 2013, , .		0
190	Role of ambipolar diffusion towards the chemical evolution of molecular cloud. , 2013, , .		0
191	Quantum chemical approach to study the spectral properties of some important precursor of bio-molecules. , 2013, , .		0
192	Monte Carlo simulation for the formation of interstellar grain mantle. , 2013, , .		0
193	Study of long path VLF signal propagation characteristics as observed from Indian Antarctic station, Maitri. , 2014, , .		0
194	Correlation between seismic events and anomalous VLF day-length for west-east and east-west propagation paths. , 2014, , .		0
195	Studies of precursors of earthquakes using anomalies in very low frequency signal. , 2014, , .		0
196	Study of low-latitude ionospheric D-region negative ion profile during an M-class solar flare using VLF propagation effects. , 2014, , .		0
197	Low latitude sub-ionospheric VLF signal behaviour during the two recent solar eclipses: Observation and simulation. , 2014, , .		0
198	Studies of VLF signal anomalies due to earthquake. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
199	A study of magnetosphere-ionosphere coupling as a precursory indicator of Earthquake. , 2014, , .		0
200	Studies of seismo-ionospheric correlations using anomalies in phase of very low frequency signal. , 2014, , .		0
201	Unusual shifts in terminator times of the VLF signals before the Pakistan earthquake (M=7.4), occurred on 18th Jan., 2011. , 2014, , .		0
202	A COMPARATIVE STUDY OF THE TIMING AND THE SPECTRAL PROPERTIES DURING TWO RECENT OUTBURSTS (2010 AND 2011) OF H 1743-322. , 2015, , .		0
203	PROPERTIES OF THE PROPAGATING OSCILLATORY SHOCK WAVE IN THE ACCRETION FLOWS AROUND FEW TRANSIENT BLACK HOLE CANDIDATES DURING THEIR OUTBURSTS. , 2015, , .		0
204	Numerical modeling of seasonal and diurnal variations of lower ionospheric reflection parameters based on IRI model. , 2020, , .		0
205	Contaminated effect of Geomagnetic storm on pre-seismic atmospheric and ionospheric anomalies during Imphal earthquake.. , 2020, , .		0
206	Surface Latent Heat Flux Anomaly: A thermal precursory effect of large Earthquake. , 2020, , .		0
207	SPECTRAL AND TIMING PROPERTIES OF MAGNETIZED ADVECTIVE FLOWS WITH STANDING SHOCKS. , 2008, , .		0
208	ASTROPHYSICAL BLACK HOLES â€“ DO THEY HAVE BOUNDARY LAYERS?. , 2008, , .		0
209	GRAVITATIONAL WAVE EMISSION FROM A STELLAR COMPANION BLACK HOLE IN PRESENCE OF AN ACCRETION DISK AROUND A KERR BLACK HOLE. , 2008, , .		0
210	PARAMETER SPACE STUDY OF MAGNETOHYDRODYNAMIC FLOWS AROUND MAGNETIZED COMPACT OBJECTS. , 2008, , .		0
211	PSEUDO-KERR GEOMETRY. , 2008, , .		0
212	PROPERTIES OF ACCRETION SHOCK WAVES IN VISCOUS FLOWS WITH COOLING EFFECTS. , 2008, , .		0
213	STANDING SHOCKS IN PSEUDO-KERR GEOMETRY. , 2008, , .		0
214	STANDING SHOCKS IN PSEUDO-KERR GEOMETRY. , 2008, , .		0
215	SEQUENCING THE VARIABILITY CLASSES OF GRS 1915+105. , 2012, , .		0
216	Study of shock propagation velocity and accretion flow dynamics around the black hole candidate H1743-322. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
217	Temporal and spectral properties of MAXI J1659-152 during its 2010 outburst. , 2017, , .		0
218	Accretion flow dynamics of a few transient black hole candidates from their spectral evolution study using TCAF solution. , 2017, , .		0
219	Possible ASTROSAT observation of transient black hole candidates to study spectral and timing properties with TCAF solution. , 2017, , .		0
220	Variation of geometry of accretion flows of compact objects as inferred from spectral studies. , 2017, , .		0
221	Inclination effects and time variability properties of black hole transients. , 2017, , .		0
222	Impacts of photon bending on observational aspects of two component advective flow. , 2017, , .		0
223	Detection of Atmospheric Gravity Wave Activity during several Earthquakes. , 2020, , .		0
224	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
225	Understanding accretion flow properties of black hole candidates after implementation of the TCAF solution in XSPEC. , 2022, , .		0