Hirotaka Ito

List of Publications by Year
in descending order

27	517	759233 12	642732 23
papers	citations	h-index	g-index

27	27	27	530
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	JET PROPAGATIONS, BREAKOUTS, AND PHOTOSPHERIC EMISSIONS IN COLLAPSING MASSIVE PROGENITORS OF LONG-DURATION GAMMA-RAY BURSTS. Astrophysical Journal, 2011, 731, 80.	4.5	101
2	PHOTOSPHERIC EMISSION FROM COLLAPSAR JETS IN 3D RELATIVISTIC HYDRODYNAMICS. Astrophysical Journal Letters, 2015, 814, L29.	8.3	51
3	PHOTOSPHERIC EMISSION FROM STRATIFIED JETS. Astrophysical Journal, 2013, 777, 62.	4.5	39
4	The photospheric origin of the Yonetoku relation in gamma-ray bursts. Nature Communications, 2019, 10, 1504.	12.8	36
5	The Estimate of Kinetic Power of Jets in FR II Radio Galaxies: Existence of Invisible Components?. Astrophysical Journal, 2008, 685, 828-838.	4.5	34
6	SPECTRAL AND POLARIZATION PROPERTIES OF PHOTOSPHERIC EMISSION FROM STRATIFIED JETS. Astrophysical Journal, 2014, 789, 159.	4.5	31
7	Synchrotron self-absorption in GRB afterglows: the effects of a thermal electron population. Monthly Notices of the Royal Astronomical Society, 2018, 480, 4060-4068.	4.4	28
8	Extragalactic MeV Î³-ray emission from cocoons of young radio galaxies. Monthly Notices of the Royal Astronomical Society, 2007, 376, 1630-1634.	4.4	27
9	MATTER MIXING IN ASPHERICAL CORE-COLLAPSE SUPERNOVAE: A SEARCH FOR POSSIBLE CONDITIONS FOR CONVEYING⁵⁶Ni INTO HIGH VELOCITY REGIONS. Astrophysical Journal, 2013, 773, 161.	4.5	26
10	Monte Carlo simulations of relativistic radiation-mediated shocks â€“ I. Photon-rich regime. Monthly Notices of the Royal Astronomical Society, 2018, 474, 2828-2851.	4.4	25
11	A Global Numerical Model of the Prompt Emission in Short Gamma-ray Bursts. Astrophysical Journal, 2021, 918, 59.	4.5	20
12	MATTER MIXING IN CORE-COLLAPSE SUPERNOVA EJECTA: LARGE DENSITY PERTURBATIONS IN THE PROGENITOR STAR?. Astrophysical Journal, 2015, 808, 164.	4.5	15
13	The young radio lobe of 3C 84: inferred gas properties in the central 10Âpc. Monthly Notices of the Royal Astronomical Society, 2016, 455, 2289-2294.	4.4	12
14	A Semianalytic Afterglow with Thermal Electrons and Synchrotron Self-Compton Emission. Astrophysical Journal, 2022, 924, 40.	4.5	11
15	NEW CLASS OF VERY HIGH ENERGY Î³-RAY EMITTERS: RADIO-DARK MINI SHELLS SURROUNDING ACTIVE GALACTIC NUCLEUS JETS. Astrophysical Journal, 2013, 764, 134.	4.5	10
16	Monte Carlo simulations of fast Newtonian and mildly relativistic shock breakout from a stellar wind. Monthly Notices of the Royal Astronomical Society, 2020, 499, 4961-4971.	4.4	10
17	Monte Carlo simulations of relativistic radiation-mediated shocks: II. photon-starved regime. Monthly Notices of the Royal Astronomical Society, 2020, 492, 1902-1913.	4.4	9
18	EVOLUTION OF NON-THERMAL SHELL EMISSION ASSOCIATED WITH ACTIVE GALACTIC NUCLEUS JETS. Astrophysical Journal, 2011, 730, 120.	4.5	8

#	Article	IF	Citations
19	Fossil Shell in 3C 84 as TeV Î³-Ray Emitter and Cosmic-Ray Accelerator. Astrophysical Journal, 2017, 843, 82.	4.5	6
20	THE FATE OF DEAD RADIO-LOUD ACTIVE GALACTIC NUCLEI: A NEW PREDICTION OF LONG-LIVED SHELL EMISSION. Astrophysical Journal, 2015, 806, 241.	4.5	5
21	PARTICLE ACCELERATION IN SUPERLUMINAL STRONG WAVES. Astrophysical Journal, 2015, 805, 138.	4.5	4
22	Parallel computing of radiative transfer in relativistic jets using Monte Carlo method. High Energy Density Physics, 2013, 9, 280-287.	1.5	3
23	GRB Prompt Emission: Observed Correlations and Their Interpretations. Universe, 2022, 8, 310.	2.5	3
24	Search for a Signature of Interaction between Relativistic Jet and Progenitor in Gamma-Ray Bursts. Astrophysical Journal, 2017, 849, 64.	4.5	2
25	Validation of radiative transfer computation with Monte Carlo method for ultra-relativistic background flow. Journal of Computational Physics, 2017, 348, 612-633.	3.8	1
26	NONTHERMAL EMISSIONS FROM SHOCKED SHELLS DRIVEN BY POWERFUL AGN JETS. International Journal of Modern Physics D, 2010, 19, 893-899.	2.1	0
27	Identical algorithm of radiative transfer across ultrarelativistic shock in different inertial frames. High Energy Density Physics, 2015, 17, 85-91.	1.5	0