

Hiroataka Ito

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A Semianalytic Afterglow with Thermal Electrons and Synchrotron Self-Compton Emission. <i>Astrophysical Journal</i> , 2022, 924, 40.	4.5	11
2	GRB Prompt Emission: Observed Correlations and Their Interpretations. <i>Universe</i> , 2022, 8, 310.	2.5	3
3	A Global Numerical Model of the Prompt Emission in Short Gamma-ray Bursts. <i>Astrophysical Journal</i> , 2021, 918, 59.	4.5	20
4	Monte Carlo simulations of relativistic radiation-mediated shocks: II. photon-starved regime. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 1902-1913.	4.4	9
5	Monte Carlo simulations of fast Newtonian and mildly relativistic shock breakout from a stellar wind. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 4961-4971.	4.4	10
6	The photospheric origin of the Yonetoku relation in gamma-ray bursts. <i>Nature Communications</i> , 2019, 10, 1504.	12.8	36
7	Synchrotron self-absorption in GRB afterglows: the effects of a thermal electron population. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 4060-4068.	4.4	28
8	Monte Carlo simulations of relativistic radiation-mediated shocks “ I. Photon-rich regime. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 2828-2851.	4.4	25
9	Validation of radiative transfer computation with Monte Carlo method for ultra-relativistic background flow. <i>Journal of Computational Physics</i> , 2017, 348, 612-633.	3.8	1
10	Fossil Shell in 3C 84 as TeV $\hat{1}^3$ -Ray Emitter and Cosmic-Ray Accelerator. <i>Astrophysical Journal</i> , 2017, 843, 82.	4.5	6
11	Search for a Signature of Interaction between Relativistic Jet and Progenitor in Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2017, 849, 64.	4.5	2
12	The young radio lobe of 3C 84: inferred gas properties in the central 10 \hat{A} pc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 2289-2294.	4.4	12
13	PHOTOSPHERIC EMISSION FROM COLLAPSAR JETS IN 3D RELATIVISTIC HYDRODYNAMICS. <i>Astrophysical Journal Letters</i> , 2015, 814, L29.	8.3	51
14	THE FATE OF DEAD RADIO-LOUD ACTIVE GALACTIC NUCLEI: A NEW PREDICTION OF LONG-LIVED SHELL EMISSION. <i>Astrophysical Journal</i> , 2015, 806, 241.	4.5	5
15	MATTER MIXING IN CORE-COLLAPSE SUPERNOVA EJECTA: LARGE DENSITY PERTURBATIONS IN THE PROGENITOR STAR?. <i>Astrophysical Journal</i> , 2015, 808, 164.	4.5	15
16	Identical algorithm of radiative transfer across ultrarelativistic shock in different inertial frames. <i>High Energy Density Physics</i> , 2015, 17, 85-91.	1.5	0
17	PARTICLE ACCELERATION IN SUPERLUMINAL STRONG WAVES. <i>Astrophysical Journal</i> , 2015, 805, 138.	4.5	4
18	SPECTRAL AND POLARIZATION PROPERTIES OF PHOTOSPHERIC EMISSION FROM STRATIFIED JETS. <i>Astrophysical Journal</i> , 2014, 789, 159.	4.5	31

#	ARTICLE	IF	CITATIONS
19	Parallel computing of radiative transfer in relativistic jets using Monte Carlo method. High Energy Density Physics, 2013, 9, 280-287.	1.5	3
20	PHOTOSPHERIC EMISSION FROM STRATIFIED JETS. Astrophysical Journal, 2013, 777, 62.	4.5	39
21	MATTER MIXING IN ASPHERICAL CORE-COLLAPSE SUPERNOVAE: A SEARCH FOR POSSIBLE CONDITIONS FOR CONVEYING ⁵⁶ Ni INTO HIGH VELOCITY REGIONS. Astrophysical Journal, 2013, 773, 161.	4.5	26
22	NEW CLASS OF VERY HIGH ENERGY $\hat{1}^3$ -RAY EMITTERS: RADIO-DARK MINI SHELLS SURROUNDING ACTIVE GALACTIC NUCLEUS JETS. Astrophysical Journal, 2013, 764, 134.	4.5	10
23	EVOLUTION OF NON-THERMAL SHELL EMISSION ASSOCIATED WITH ACTIVE GALACTIC NUCLEUS JETS. Astrophysical Journal, 2011, 730, 120.	4.5	8
24	JET PROPAGATIONS, BREAKOUTS, AND PHOTOSPHERIC EMISSIONS IN COLLAPSING MASSIVE PROGENITORS OF LONG-DURATION GAMMA-RAY BURSTS. Astrophysical Journal, 2011, 731, 80.	4.5	101
25	NONTHERMAL EMISSIONS FROM SHOCKED SHELLS DRIVEN BY POWERFUL AGN JETS. International Journal of Modern Physics D, 2010, 19, 893-899.	2.1	0
26	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
27	Extragalactic MeV $\hat{1}^3$ -ray emission from cocoons of young radio galaxies. Monthly Notices of the Royal Astronomical Society, 2007, 376, 1630-1634.	4.4	27