

Dimitrios Giannios

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

5,731
citations

70961

41
h-index

76769

74
g-index

102
all docs

102
docs citations

102
times ranked

4743
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation and Polarization Signatures from Magnetic Reconnection in Relativistic Jets. II. Connection with $\hat{\Gamma}^3$ -Rays. <i>Astrophysical Journal</i> , 2022, 924, 90.	1.6	11
2	Evidence for X-Ray Emission in Excess to the Jet-afterglow Decay 3.5 yr after the Binary Neutron Star Merger GW 170817: A New Emission Component. <i>Astrophysical Journal Letters</i> , 2022, 927, L17.	3.0	41
3	Balancing turbulent heating with radiative cooling in blazars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 5766-5779.	1.6	2
4	Black Hole to Photosphere: 3D GRMHD Simulations of Collapsars Reveal Wobbling and Hybrid Composition Jets. <i>Astrophysical Journal Letters</i> , 2022, 933, L9.	3.0	34
5	Radiation signatures from striped blazar jet. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 1145-1157.	1.6	13
6	The blazar sequence revised. <i>Astronomische Nachrichten</i> , 2021, 342, 147-152.	0.6	0
7	Multimessenger Parameter Estimation of GW170817: From Jet Structure to the Hubble Constant. <i>Astrophysical Journal</i> , 2021, 908, 200.	1.6	21
8	First-principles Prediction of X-Ray Polarization from Magnetic Reconnection in High-frequency BL Lacertae Objects. <i>Astrophysical Journal</i> , 2021, 912, 129.	1.6	7
9	Shock-powered radio precursors of neutron star mergers from accelerating relativistic binary winds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 3184-3202.	1.6	35
10	Blazar jets launched with similar energy per baryon, independently of their power. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 4092-4102.	1.6	3
11	Fast Particle Acceleration in Three-dimensional Relativistic Reconnection. <i>Astrophysical Journal</i> , 2021, 922, 261.	1.6	40
12	Interplasmoid Compton scattering and the Compton dominance of BL Lacs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 549-555.	1.6	14
13	Gamma-ray bursts as cool synchrotron sources. <i>Nature Astronomy</i> , 2020, 4, 174-179.	4.2	68
14	Deciphering the properties of the central engine in GRB collapsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 2910-2921.	1.6	4
15	Viewing Short Gamma-Ray Bursts From a Different Angle. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	1.1	3
16	Kink instabilities in relativistic jets can drive quasi-periodic radiation signatures. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1817-1825.	1.6	26
17	FRB Periodicity: Mild Pulsars in Tight O/B-star Binaries. <i>Astrophysical Journal Letters</i> , 2020, 893, L39.	3.0	85
18	Ready, Set, Launch: Time Interval between a Binary Neutron Star Merger and Short Gamma-Ray Burst Jet Formation. <i>Astrophysical Journal Letters</i> , 2020, 895, L33.	3.0	26

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19	Inverse Compton signatures of gamma-ray burst afterglows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 974-986.	1.6	15
20	Radiation and Polarization Signatures from Magnetic Reconnection in Relativistic Jets. I. A Systematic Study. <i>Astrophysical Journal</i> , 2020, 901, 149.	1.6	20
21	X-Ray Emission from GW170817 $\sim 1/2.5$ years After the Merger. <i>Research Notes of the AAS</i> , 2020, 4, 68.	0.3	10
22	Probing the Emission Mechanism and Magnetic Field of Neutrino Blazars with Multiwavelength Polarization Signatures. <i>Astrophysical Journal</i> , 2019, 876, 109.	1.6	20
23	Relativistic Magnetic Reconnection in Electron-Positron-Proton Plasmas: Implications for Jets of Active Galactic Nuclei. <i>Astrophysical Journal</i> , 2019, 880, 37.	1.6	58
24	Observable features of GW170817 kilonova afterglow. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 3914-3921.	1.6	35
25	The Optical Afterglow of GW170817: An Off-axis Structured Jet and Deep Constraints on a Globular Cluster Origin. <i>Astrophysical Journal Letters</i> , 2019, 883, L1.	3.0	69
26	EM counterparts of structured jets from 3D GRMHD simulations. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 484, L98-L103.	1.2	56
27	Observational Constraints on Late-time Radio Rebrightening of GRB/Supernovae. <i>Astrophysical Journal</i> , 2019, 872, 28.	1.6	10
28	Two Years of Nonthermal Emission from the Binary Neutron Star Merger GW170817: Rapid Fading of the Jet Afterglow and First Constraints on the Kilonova Fastest Ejecta. <i>Astrophysical Journal Letters</i> , 2019, 886, L17.	3.0	117
29	A lesson from GW170817: most neutron star mergers result in tightly collimated successful GRB jets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 840-851.	1.6	71
30	Radiative signatures of plasmoid-dominated reconnection in blazar jets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 65-82.	1.6	54
31	Plasmoid statistics in relativistic magnetic reconnection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 3797-3812.	1.6	20
32	Off-axis short GRBs from structured jets as counterparts to GW events. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 473, L121-L125.	1.2	97
33	Compton echoes from nearby gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 5621-5628.	1.6	5
34	Marginally fast cooling synchrotron models for prompt GRBs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 1785-1795.	1.6	38
35	The Binary Neutron Star Event LIGO/Virgo GW170817 160 Days after Merger: Synchrotron Emission across the Electromagnetic Spectrum. <i>Astrophysical Journal Letters</i> , 2018, 856, L18.	3.0	258
36	A Decline in the X-Ray through Radio Emission from GW170817 Continues to Support an Off-axis Structured Jet. <i>Astrophysical Journal Letters</i> , 2018, 863, L18.	3.0	138

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37	Extreme scattering events from axisymmetric plasma lenses. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2685-2693.	1.6	16
38	Effects of Fallback Accretion on Protomagnetar Outflows in Gamma-Ray Bursts and Superluminous Supernovae. Astrophysical Journal, 2018, 857, 95.	1.6	82
39	Large-amplitude Blazar Polarization Angle Swing as a Signature of Magnetic Reconnection. Astrophysical Journal Letters, 2018, 862, L25.	3.0	42
40	Prompt gamma-ray burst emission from gradual magnetic dissipation. Monthly Notices of the Royal Astronomical Society, 2017, 468, 3202-3211.	1.6	51
41	Simulations of AGN jets: magnetic kink instability versus conical shocks. Monthly Notices of the Royal Astronomical Society, 2017, 469, 4957-4978.	1.6	64
42	The TeV emission of Ap Librae: a hadronic interpretation and prospects for CTA. Monthly Notices of the Royal Astronomical Society, 2017, 464, 2213-2222.	1.6	22
43	The influence of circumnuclear environment on the radio emission from TDE jets. Monthly Notices of the Royal Astronomical Society, 2017, 464, 2481-2498.	1.6	42
44	Collapsar $\hat{\Gamma}$ -ray bursts: how the luminosity function dictates the duration distribution. Monthly Notices of the Royal Astronomical Society, 2017, 472, 2722-2727.	1.6	6
45	Constraints on millisecond magnetars as the engines of prompt emission in gamma-ray bursts. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3058-3073.	1.6	37
46	TDE fallback cut-off due to a pre-existing accretion disc. Monthly Notices of the Royal Astronomical Society, 2017, 469, 314-322.	1.6	12
47	Off-axis short GRBs from structured jets as counterparts to GW events. , 2017, , .		1
48	Blazar Variability from Plasmoids in Relativistic Reconnection. , 2017, , .		0
49	Numerical simulations of the jetted tidal disruption event Swift J1644+57. Journal of Physics: Conference Series, 2016, 719, 012008.	0.3	3
50	Plasmoids in relativistic reconnection, from birth to adulthood: first they grow, then they go. Monthly Notices of the Royal Astronomical Society, 2016, 462, 48-74.	1.6	130
51	GRB off-axis afterglows and the emission from the accompanying supernovae. Monthly Notices of the Royal Astronomical Society, 2016, 461, 1568-1575.	1.6	15
52	Modelling accretion disc and stellar wind interactions: the case of Sgr A*. Monthly Notices of the Royal Astronomical Society, 2016, 459, 2420-2431.	1.6	15
53	Radio SNRs in the Magellanic Clouds as probes of shock microphysics. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 462, L31-L35.	1.2	3
54	Blazar flares powered by plasmoids in relativistic reconnection. Monthly Notices of the Royal Astronomical Society, 2016, 462, 3325-3343.	1.6	109

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55	Swift J1644+5734: the EVN view. Proceedings of the International Astronomical Union, 2016, 12, 119-122.	0.0	0
56	Flares from Galactic Centre pulsars: a new class of X-ray transients?. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 459, L95-L99.	1.2	2
57	A combined radio and GeV $\hat{\gamma}$ -ray view of the 2012 and 2013 flares of Mrk421. Monthly Notices of the Royal Astronomical Society, 2015, 448, 3121-3131.	1.6	42
58	Radio rebrightening of the GRB afterglow by the accompanying supernova. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1711-1718.	1.6	15
59	The radio afterglow of Swift J1644+57 reveals a powerful jet with fast core and slow sheath. Monthly Notices of the Royal Astronomical Society, 2015, 450, 2824-2841.	1.6	52
60	Relativistic jets shine through shocks or magnetic reconnection?. Monthly Notices of the Royal Astronomical Society, 2015, 450, 183-191.	1.6	233
61	Relativistic Magnetic Reconnection in Pair Plasmas and Its Astrophysical Applications. Space Science Reviews, 2015, 191, 545-573.	3.7	109
62	Magnetic flux of progenitor stars sets gamma-ray burst luminosity and variability. Monthly Notices of the Royal Astronomical Society, 2015, 447, 327-344.	1.6	43
63	Black hole jets without large-scale net magnetic flux. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 446, L61-L65.	1.2	69
64	RELATIVISTIC PAIR BEAMS FROM TeV BLAZARS: A SOURCE OF REPROCESSED GeV EMISSION RATHER THAN INTERGALACTIC HEATING. Astrophysical Journal, 2014, 787, 49.	1.6	76
65	Implications of a PeV neutrino spectral cut-off in gamma-ray burst models. Monthly Notices of the Royal Astronomical Society, 2014, 445, 570-580.	1.6	38
66	Hadronic supercriticality as a trigger for $\hat{\gamma}$ -ray burst emission. Monthly Notices of the Royal Astronomical Society, 2014, 444, 2186-2199.	1.6	11
67	Swift J1644+57 gone MAD: the case for dynamically important magnetic flux threading the black hole in a jetted tidal disruption event. Monthly Notices of the Royal Astronomical Society, 2014, 437, 2744-2760.	1.6	141
68	Testing the neutrino annihilation model for launching GRB jets. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 445, L1-L5.	1.2	24
69	The S2 star as a probe of the accretion disc of Sgr A*. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 433, L25-L29.	1.2	12
70	Reconnection-driven plasmoids in blazars: fast flares on a slow envelope. Monthly Notices of the Royal Astronomical Society, 2013, 431, 355-363.	1.6	156
71	A LATE-TIME FLATTENING OF LIGHT CURVES IN GAMMA-RAY BURST AFTERGLOWS. Astrophysical Journal, 2013, 778, 107.	1.6	53
72	Optical and X-ray transients from planet-star mergers. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2778-2798.	1.6	85

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73	JETS FROM STELLAR TIDAL DISRUPTIONS BY SUPERMASSIVE BLACK HOLES. International Journal of Modern Physics Conference Series, 2012, 08, 253-258.	0.7	0
74	Afterglow model for the radio emission from the jetted tidal disruption candidate Swiftâ€fJ1644+57. Monthly Notices of the Royal Astronomical Society, 2012, , no-no.	1.6	46
75	The peak energy of dissipative gamma-ray burst photospheres. Monthly Notices of the Royal Astronomical Society, 2012, 422, 3092-3098.	1.6	84
76	Acceleration and emission of MHD driven, relativistic jets. Journal of Physics: Conference Series, 2011, 283, 012015.	0.3	4
77	Radiative properties of reconnection-powered minijets in blazars. Monthly Notices of the Royal Astronomical Society, 2011, 413, 333-346.	1.6	94
78	The protomagnetar model for gamma-ray bursts. Monthly Notices of the Royal Astronomical Society, 2011, 413, 2031-2056.	1.6	493
79	Heavy nuclei synthesized in gamma-ray burst outflows as the source of ultrahigh energy cosmic rays. Monthly Notices of the Royal Astronomical Society, 2011, 415, 2495-2504.	1.6	42
80	Radio transients from stellar tidal disruption by massive black holes. Monthly Notices of the Royal Astronomical Society, 2011, 416, 2102-2107.	1.6	130
81	Gamma-ray burst afterglow light curves from realistic density profiles. Monthly Notices of the Royal Astronomical Society, 2011, 418, 583-590.	1.6	22
82	A Possible Relativistic Jetted Outburst from a Massive Black Hole Fed by a Tidally Disrupted Star. Science, 2011, 333, 203-206.	6.0	448
83	Afterglow light curves from magnetized GRB flows. Proceedings of the International Astronomical Union, 2010, 6, 358-362.	0.0	0
84	Superflares from magnetars revealing the GRB central engine. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 403, L51-L53.	1.2	8
85	UHECRs from magnetic reconnection in relativistic jets. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 408, L46-L50.	1.2	101
86	Unveiling the origin of X-ray flares in gamma-ray bursts. Monthly Notices of the Royal Astronomical Society, 2010, 406, 2113-2148.	1.6	141
87	Fast TeV variability from misaligned minijets in the jet of M87. Monthly Notices of the Royal Astronomical Society, 2010, 402, 1649-1656.	1.6	131
88	SIMULATIONS OF DYNAMICS AND EMISSION FROM MAGNETIZED GRB AFTERGLOWS. International Journal of Modern Physics D, 2010, 19, 985-990.	0.9	1
89	Powerful GeV emission from a $\hat{1}^3$ -ray-burst shock wave scattering stellar photons. , 2009, , .		0
90	Signatures of a Maxwellian component in shock-accelerated electrons in GRBs. Monthly Notices of the Royal Astronomical Society, 2009, 400, 330-336.	1.6	60

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91	Fast TeV variability in blazars: jets in a jet. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 395, L29-L33.	1.2	391
92	Prompt gamma-ray burst emission from gradual energy dissipation. Journal of Physics: Conference Series, 2009, 189, 012018.	0.3	0
93	Soft X-ray components in the hard state of accreting black holes. , 2009, , .		0
94	Structure of neutron stars in tensor-vector-scalar theory. Physical Review D, 2008, 78, .	1.6	43
95	An RMHD study of transition between prompt and afterglow GRB phases. , 2008, , .		0
96	Prompt emission spectra from the photosphere of a GRB. , 2007, , .		0
97	AMRVAC and relativistic hydrodynamic simulations for gamma-ray burst afterglow phases. Monthly Notices of the Royal Astronomical Society, 2007, 376, 1189-1200.	1.6	43
98	Spectra and time variability of black-hole binaries in the low/hard state. Advances in Space Research, 2006, 38, 2810-2812.	1.2	1
99	The role of kink instability in Poynting-flux dominated jets. AIP Conference Proceedings, 2006, , .	0.3	1
100	Spherically symmetric, static spacetimes in a tensor-vector-scalar theory. AIP Conference Proceedings, 2006, , .	0.3	0
101	Spherically symmetric, static spacetimes in a tensor-vector-scalar theory. Physical Review D, 2005, 71, .	1.6	76
102	Multiwavelength afterglow light curves from magnetized gamma-ray burst flows. Monthly Notices of the Royal Astronomical Society, 0, 407, 2501-2510.	1.6	36