

Dimitrios Giannios

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7900575/publications.pdf>

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	The protomagnetar model for gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 413, 2031-2056.	1.6	493
2	A Possible Relativistic Jetted Outburst from a Massive Black Hole Fed by a Tidally Disrupted Star. <i>Science</i> , 2011, 333, 203-206.	6.0	448
3	Fast TeV variability in blazars: jets in a jet. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2009, 395, L29-L33.	1.2	391
4	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
5	Relativistic jets shine through shocks or magnetic reconnection?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 183-191.	1.6	233
6	Reconnection-driven plasmoids in blazars: fast flares on a slow envelope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 355-363.	1.6	156
7	Unveiling the origin of X-ray flares in gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 406, 2113-2148.	1.6	141
8	Swift J1644+57 gone MAD: the case for dynamically important magnetic flux threading the black hole in a jetted tidal disruption event. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 437, 2744-2760.	1.6	141
9	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
10	Fast TeV variability from misaligned minijets in the jet of M87. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 402, 1649-1656.	1.6	131
11	Radio transients from stellar tidal disruption by massive black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 416, 2102-2107.	1.6	130
12	Plasmoids in relativistic reconnection, from birth to adulthood: first they grow, then they go. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 48-74.	1.6	130
13	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
14	Relativistic Magnetic Reconnection in Pair Plasmas and Its Astrophysical Applications. <i>Space Science Reviews</i> , 2015, 191, 545-573.	3.7	109
15	Blazar flares powered by plasmoids in relativistic reconnection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 3325-3343.	1.6	109
16	UHECRs from magnetic reconnection in relativistic jets. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 408, L46-L50.	1.2	101
17	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
18	Radiative properties of reconnection-powered minijets in blazars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 413, 333-346.	1.6	94

#	ARTICLE	IF	CITATIONS
19	Optical and X-ray transients from planet-star mergers. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2778-2798.	1.6	85
20	FRB Periodicity: Mild Pulsars in Tight O/B-star Binaries. Astrophysical Journal Letters, 2020, 893, L39.	3.0	85
21	The peak energy of dissipative gamma-ray burst photospheres. Monthly Notices of the Royal Astronomical Society, 2012, 422, 3092-3098.	1.6	84
22	Effects of Fallback Accretion on Protomagnetar Outflows in Gamma-Ray Bursts and Superluminous Supernovae. Astrophysical Journal, 2018, 857, 95.	1.6	82
23	Spherically symmetric, static spacetimes in a tensor-vector-scalar theory. Physical Review D, 2005, 71, .	1.6	76
24	RELATIVISTIC PAIR BEAMS FROM TeV BLAZARS: A SOURCE OF REPROCESSED GeV EMISSION RATHER THAN INTERGALACTIC HEATING. Astrophysical Journal, 2014, 787, 49.	1.6	76
25	A lesson from GW170817: most neutron star mergers result in tightly collimated successful GRB jets. Monthly Notices of the Royal Astronomical Society, 2019, 483, 840-851.	1.6	71
26	Black hole jets without large-scale net magnetic flux. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 446, L61-L65.	1.2	69
27	The Optical Afterglow of GW170817: An Off-axis Structured Jet and Deep Constraints on a Globular Cluster Origin. Astrophysical Journal Letters, 2019, 883, L1.	3.0	69
28	Gamma-ray bursts as cool synchrotron sources. Nature Astronomy, 2020, 4, 174-179.	4.2	68
29	Simulations of AGN jets: magnetic kink instability versus conical shocks. Monthly Notices of the Royal Astronomical Society, 2017, 469, 4957-4978.	1.6	64
30	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
31	Relativistic Magnetic Reconnection in Electron-Positron-Proton Plasmas: Implications for Jets of Active Galactic Nuclei. Astrophysical Journal, 2019, 880, 37.	1.6	58
32	EM counterparts of structured jets from 3D GRMHD simulations. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 484, L98-L103.	1.2	56
33	Radiative signatures of plasmoid-dominated reconnection in blazar jets. Monthly Notices of the Royal Astronomical Society, 2019, 482, 65-82.	1.6	54
34	A LATE-TIME FLATTENING OF LIGHT CURVES IN GAMMA-RAY BURST AFTERGLOWS. Astrophysical Journal, 2013, 778, 107.	1.6	53
35	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
36	Prompt gamma-ray burst emission from gradual magnetic dissipation. Monthly Notices of the Royal Astronomical Society, 2017, 468, 3202-3211.	1.6	51

#	ARTICLE	IF	CITATIONS
37	Afterglow model for the radio emission from the jetted tidal disruption candidate Swift J1644+57. Monthly Notices of the Royal Astronomical Society, 2012, , no-no.	1.6	46
38	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
39	Structure of neutron stars in tensor-vector-scalar theory. Physical Review D, 2008, 78, .	1.6	43
40	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
41	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
42	A combined radio and GeV γ -ray view of the 2012 and 2013 flares of Mrk 421. Monthly Notices of the Royal Astronomical Society, 2015, 448, 3121-3131.	1.6	42
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	Large-amplitude Blazar Polarization Angle Swing as a Signature of Magnetic Reconnection. Astrophysical Journal Letters, 2018, 862, L25.	3.0	42
45	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. Astrophysical Journal Letters, 2022, 927, L17.	3.0	41
46	Fast Particle Acceleration in Three-dimensional Relativistic Reconnection. Astrophysical Journal, 2021, 922, 261.	1.6	40
47	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
48	Marginally fast cooling synchrotron models for prompt GRBs. Monthly Notices of the Royal Astronomical Society, 2018, 476, 1785-1795.	1.6	38
49	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
50	Multiwavelength afterglow light curves from magnetized gamma-ray burst flows. Monthly Notices of the Royal Astronomical Society, 0, 407, 2501-2510.	1.6	36
51	Observable features of GW170817 kilonova afterglow. Monthly Notices of the Royal Astronomical Society, 2019, 487, 3914-3921.	1.6	35
52	Shock-powered radio precursors of neutron star mergers from accelerating relativistic binary winds. Monthly Notices of the Royal Astronomical Society, 2021, 501, 3184-3202.	1.6	35
53	Black Hole to Photosphere: 3D GRMHD Simulations of Collapsars Reveal Wobbling and Hybrid Composition Jets. Astrophysical Journal Letters, 2022, 933, L9.	3.0	34
54	Kink instabilities in relativistic jets can drive quasi-periodic radiation signatures. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1817-1825.	1.6	26

#	ARTICLE	IF	CITATIONS
55	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
56	Testing the neutrino annihilation model for launching GRB jets. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2014, 445, L1-L5.	1.2	24
57	Gamma-ray burst afterglow light curves from realistic density profiles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 418, 583-590.	1.6	22
58	The TeV emission of Ap Librae: a hadronic interpretation and prospects for CTA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 2213-2222.	1.6	22
59	Multimessenger Parameter Estimation of GW170817: From Jet Structure to the Hubble Constant. <i>Astrophysical Journal</i> , 2021, 908, 200.	1.6	21
60	Plasmoid statistics in relativistic magnetic reconnection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 3797-3812.	1.6	20
61	Probing the Emission Mechanism and Magnetic Field of Neutrino Blazars with Multiwavelength Polarization Signatures. <i>Astrophysical Journal</i> , 2019, 876, 109.	1.6	20
62	Radiation and Polarization Signatures from Magnetic Reconnection in Relativistic Jets. I. A Systematic Study. <i>Astrophysical Journal</i> , 2020, 901, 149.	1.6	20
63	Extreme scattering events from axisymmetric plasma lenses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 2685-2693.	1.6	16
64	Radio rebrightening of the GRB afterglow by the accompanying supernova. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 1711-1718.	1.6	15
65	GRB off-axis afterglows and the emission from the accompanying supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 1568-1575.	1.6	15
66	Modelling accretion disc and stellar wind interactions: the case of Sgr A*. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 2420-2431.	1.6	15
67	Inverse Compton signatures of gamma-ray burst afterglows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 974-986.	1.6	15
68	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
69	Radiation signatures from striped blazar jet. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 1145-1157.	1.6	13
70	The S2 star as a probe of the accretion disc of Sgr A*. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013, 433, L25-L29.	1.2	12
71	TDE fallback cut-off due to a pre-existing accretion disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 314-322.	1.6	12
72	Hadronic supercriticality as a trigger for $\hat{\gamma}$ -ray burst emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 2186-2199.	1.6	11

#	ARTICLE	IF	CITATIONS
73	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
74	Observational Constraints on Late-time Radio Rebrightening of GRB/Supernovae. <i>Astrophysical Journal</i> , 2019, 872, 28.	1.6	10
75	X-Ray Emission from GW170817 $\hat{\Gamma}^3$ 2.5 years After the Merger. <i>Research Notes of the AAS</i> , 2020, 4, 68.	0.3	10
76	Superflares from magnetars revealing the GRB central engine. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 403, L51-L53.	1.2	8
77	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
78	Collapsar $\hat{\Gamma}^3$ -ray bursts: how the luminosity function dictates the duration distribution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 2722-2727.	1.6	6
79	Compton echoes from nearby gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 5621-5628.	1.6	5
80	Acceleration and emission of MHD driven, relativistic jets. <i>Journal of Physics: Conference Series</i> , 2011, 283, 012015.	0.3	4
81	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
82	Numerical simulations of the jetted tidal disruption event Swift J1644+57. <i>Journal of Physics: Conference Series</i> , 2016, 719, 012008.	0.3	3
83	Radio SNRs in the Magellanic Clouds as probes of shock microphysics. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 462, L31-L35.	1.2	3
84	Viewing Short Gamma-Ray Bursts From a Different Angle. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	1.1	3
85	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
86	Flares from Galactic Centre pulsars: a new class of X-ray transients?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 459, L95-L99.	1.2	2
87	Balancing turbulent heating with radiative cooling in blazars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 5766-5779.	1.6	2
88	Spectra and time variability of black-hole binaries in the low/hard state. <i>Advances in Space Research</i> , 2006, 38, 2810-2812.	1.2	1
89	The role of kink instability in Poynting-flux dominated jets. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	1
90	SIMULATIONS OF DYNAMICS AND EMISSION FROM MAGNETIZED GRB AFTERGLOWS. <i>International Journal of Modern Physics D</i> , 2010, 19, 985-990.	0.9	1

#	ARTICLE	IF	CITATIONS
91	Off-axis short GRBs from structured jets as counterparts to GW events. , 2017, , .		1
92	Spherically symmetric, static spacetimes in a tensor-vector-scalar theory. AIP Conference Proceedings, 2006, , .	0.3	0
93	Prompt emission spectra from the photosphere of a GRB. , 2007, , .		0
94	Powerful GeV emission from a $\hat{\Gamma}^3$ -ray-burst shock wave scattering stellar photons. , 2009, , .		0
95	Prompt gamma-ray burst emission from gradual energy dissipation. Journal of Physics: Conference Series, 2009, 189, 012018.	0.3	0
96	Afterglow light curves from magnetized GRB flows. Proceedings of the International Astronomical Union, 2010, 6, 358-362.	0.0	0
97	JETS FROM STELLAR TIDAL DISRUPTIONS BY SUPERMASSIVE BLACK HOLES. International Journal of Modern Physics Conference Series, 2012, 08, 253-258.	0.7	0
98	Swift J1644+5734: the EVN view. Proceedings of the International Astronomical Union, 2016, 12, 119-122.	0.0	0
99	The blazar sequence revised. Astronomische Nachrichten, 2021, 342, 147-152.	0.6	0
100	An RMHD study of transition between prompt and afterglow GRB phases. , 2008, , .		0
101	Soft X-ray components in the hard state of accreting black holes. , 2009, , .		0
102	Blazar Variability from Plasmoids in Relativistic Reconnection. , 2017, , .		0