

Maria Petropoulou

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

2,614
citations

201674

27
h-index

197818

49
g-index

83
all docs

83
docs citations

83
times ranked

2274
citing authors

#	ARTICLE	IF	CITATIONS
1	Relativistic jets shine through shocks or magnetic reconnection?. Monthly Notices of the Royal Astronomical Society, 2015, 450, 183-191.	4.4	233
2	A Multimessenger Picture of the Flaring Blazar TXS 0506+056: Implications for High-energy Neutrino Emission and Cosmic-Ray Acceleration. Astrophysical Journal, 2018, 864, 84.	4.5	184
3	Blazar Flares as an Origin of High-energy Cosmic Neutrinos?. Astrophysical Journal, 2018, 865, 124.	4.5	139
4	Photohadronic origin of γ -ray BL Lac emission: implications for IceCube neutrinos. Monthly Notices of the Royal Astronomical Society, 2015, 448, 2412-2429.	4.4	132
5	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.	4.4	130
6	Blazar flares powered by plasmoids in relativistic reconnection. Monthly Notices of the Royal Astronomical Society, 2016, 462, 3325-3343.	4.4	109
7	TXS 0506+056, the first cosmic neutrino source, is not a BL Lac. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 484, L104-L108.	3.3	96
8	A simplified view of blazars: the neutrino background. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1877-1887.	4.4	82
9	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.	4.4	71
10	Bethe-Heitler emission in BL Lacs: filling the gap between X-rays and γ -rays. Monthly Notices of the Royal Astronomical Society, 2015, 447, 36-48.	4.4	66
11	The steady growth of the high-energy spectral cut-off in relativistic magnetic reconnection. Monthly Notices of the Royal Astronomical Society, 2018, 481, 5687-5701.	4.4	62
12	Relativistic Magnetic Reconnection in Electron-Positron-Proton Plasmas: Implications for Jets of Active Galactic Nuclei. Astrophysical Journal, 2019, 880, 37.	4.5	58
13	A Two-zone Model for Blazar Emission: Implications for TXS 0506+056 and the Neutrino Event IceCube-170922A. Astrophysical Journal, 2019, 886, 23.	4.5	58
14	Mrk 421 as a case study for TeV and X-ray variability in leptohadronic models. Monthly Notices of the Royal Astronomical Society, 2013, 434, 2684-2695.	4.4	57
15	Radiative signatures of plasmoid-dominated reconnection in blazar jets. Monthly Notices of the Royal Astronomical Society, 2019, 482, 65-82.	4.4	54
16	Multi-epoch Modeling of TXS 0506+056 and Implications for Long-term High-energy Neutrino Emission. Astrophysical Journal, 2020, 891, 115.	4.5	53
17	High-energy Neutrino and Gamma-Ray Emission from Tidal Disruption Events. Astrophysical Journal, 2020, 902, 108.	4.5	43
18	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.	4.4	42

#	ARTICLE	IF	CITATIONS
19	NGC 300 ULX1: spin evolution, super-Eddington accretion, and outflows. Monthly Notices of the Royal Astronomical Society, 2019, 488, 5225-5231.	4.4	41
20	A Neutral Beam Model for High-energy Neutrino Emission from the Blazar TXS 0506+056. Astrophysical Journal, 2020, 889, 118.	4.5	39
21	Implications of a PeV neutrino spectral cut-off in gamma-ray burst models. Monthly Notices of the Royal Astronomical Society, 2014, 445, 570-580.	4.4	38
22	Time-dependent neutrino emission from Mrk 421 during flares and predictions for IceCube. Astroparticle Physics, 2016, 80, 115-130.	4.3	34
23	Secondary Energization in Compressing Plasmoids during Magnetic Reconnection. Astrophysical Journal, 2021, 912, 48.	4.5	34
24	One-zone synchrotron self-Compton model for the core emission of Centaurus A revisited. Astronomy and Astrophysics, 2014, 562, A12.	5.1	33
25	Point-source and diffuse high-energy neutrino emission from Type II supernovae. Monthly Notices of the Royal Astronomical Society, 2017, 470, 1881-1893.	4.4	33
26	Self-consistent neutrino and UHE cosmic ray spectra from Mrk 421. Astroparticle Physics, 2014, 54, 61-66.	4.3	32
27	Temporal signatures of leptohadronic feedback mechanisms in compact sources. Monthly Notices of the Royal Astronomical Society, 2012, 421, 2325-2341.	4.4	27
28	Comprehensive Multimessenger Modeling of the Extreme Blazar 3HSP J095507.9+355101 and Predictions for IceCube. Astrophysical Journal, 2020, 899, 113.	4.5	27
29	Constraints of flat spectrum radio quasars in the hadronic model: the case of 3C 273. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1303-1315.	4.4	26
30	Ready, Set, Launch: Time Interval between a Binary Neutron Star Merger and Short Gamma-Ray Burst Jet Formation. Astrophysical Journal Letters, 2020, 895, L33.	8.3	26
31	PROPERTIES OF BLAZAR JETS DEFINED BY AN ECONOMY OF POWER. Astrophysical Journal Letters, 2016, 825, L11.	8.3	25
32	Unraveling the Complex Behavior of Mrk 421 with Simultaneous X-Ray and VHE Observations during an Extreme Flaring Activity in 2013 April. Astrophysical Journal, Supplement Series, 2020, 248, 29.	7.7	25
33	The X-ray dust-scattered rings of the black hole low-mass binary V404 Cyg. Monthly Notices of the Royal Astronomical Society, 2016, 455, 4426-4441.	4.4	24
34	A hadronic minute-scale GeV flare from quasar 3C 279?. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 467, L16-L20.	3.3	24
35	Neutrino signal dependence on gamma-ray burst emission mechanism. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 034.	5.4	24
36	Proton Synchrotron Gamma-Rays and the Energy Crisis in Blazars. Astrophysical Journal Letters, 2020, 893, L20.	8.3	23

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37	The TeV emission of Ap Librae: a hadronic interpretation and prospects for CTA. Monthly Notices of the Royal Astronomical Society, 2017, 464, 2213-2222.	4.4	22
38	On proton synchrotron blazar models: the case of quasar 3C 279. Monthly Notices of the Royal Astronomical Society, 2012, 426, 462-472.	4.4	21
39	Plasmoid statistics in relativistic magnetic reconnection. Monthly Notices of the Royal Astronomical Society, 2018, 475, 3797-3812.	4.4	20
40	On the multiwavelength emission from gamma ray burst afterglows. Astronomy and Astrophysics, 2009, 507, 599-610.	5.1	20
41	Radio synchrotron emission from secondary electrons in interaction-powered supernovae. Monthly Notices of the Royal Astronomical Society, 2016, 460, 44-66.	4.4	19
42	Implications of automatic photon quenching on compact gamma-ray sources. Astronomy and Astrophysics, 2011, 532, A11.	5.1	18
43	The role of hadronic cascades in GRB models of efficient neutrino production. Monthly Notices of the Royal Astronomical Society, 2014, 442, 3026-3036.	4.4	17
44	Extreme scattering events from axisymmetric plasma lenses. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2685-2693.	4.4	16
45	Multi-messenger emission from the parsec-scale jet of the flat-spectrum radio quasar PKS 1502+106 coincident with high-energy neutrino IceCube-190730A. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 082.	5.4	16
46	Time-dependent modelling of PKS 2155-304 in a low state. Astronomy and Astrophysics, 2014, 571, A83.	5.1	15
47	Modelling accretion disc and stellar wind interactions: the case of Sgr A*. Monthly Notices of the Royal Astronomical Society, 2016, 459, 2420-2431.	4.4	15
48	Inverse Compton signatures of gamma-ray burst afterglows. Monthly Notices of the Royal Astronomical Society, 2020, 496, 974-986.	4.4	15
49	Identification of two new HMXBs in the LMC: an $\dot{\gamma}$ pulsar and a probable SFXT. Monthly Notices of the Royal Astronomical Society, 2018, 475, 220-231.	4.4	14
50	Interplasmoid Compton scattering and the Compton dominance of BL Lacs. Monthly Notices of the Royal Astronomical Society, 2020, 492, 549-555.	4.4	14
51	The spectra of IceCube neutrino (SIN) candidate sources $\hat{\alpha}$ II. Source characterization. Monthly Notices of the Royal Astronomical Society, 2022, 510, 2671-2688.	4.4	13
52	Detection of an Optical/UV Jet/Counterjet and Multiple Spectral Components in M84. Astrophysical Journal, 2018, 860, 9.	4.5	12
53	A marginally fast-cooling proton $\hat{\alpha}$ synchrotron model for prompt GRBs. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1367-1381.	4.4	12
54	Hadronic supercriticality as a trigger for $\hat{\gamma}$ -ray burst emission. Monthly Notices of the Royal Astronomical Society, 2014, 444, 2186-2199.	4.4	11

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55	A study of natural frequencies in a dynamic corona “ disk system. <i>Astronomy and Astrophysics</i> , 2022, 662, A118.	5.1	11
56	X-ray mapping of the stellar wind in the binary PSR J2032+4127/MT91Â213. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 474, L22-L26.	3.3	10
57	Hadronic X-Ray Flares from Blazars. <i>Astrophysical Journal</i> , 2021, 906, 131.	4.5	10
58	Effects of a low electron distribution cutoff on multiwavelength spectra and light curves of GRB afterglows. <i>Astronomy and Astrophysics</i> , 2011, 531, A76.	5.1	9
59	Spectral signatures of compact sources in the inverse Compton catastrophe limit. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 3226-3245.	4.4	8
60	A roadmap to hadronic supercriticalities: a comprehensive study of the parameter space for high-energy astrophysical sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 2458-2474.	4.4	8
61	Patterns of variability in supercritical hadronic systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 2917-2925.	4.4	7
62	High-energy neutrinos from X-rays flares of blazars frequently observed by the <i>Swift</i> X-ray Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 4063-4079.	4.4	7
63	Spontaneously quenched γ -ray spectra from compact sources. <i>Astronomy and Astrophysics</i> , 2013, 557, A48.	5.1	6
64	Collapsar γ -ray bursts: how the luminosity function dictates the duration distribution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 2722-2727.	4.4	6
65	The Observability of Plasmoid-powered γ -Ray Flares with the Fermi Large Area Telescope. <i>Astrophysical Journal</i> , 2021, 912, 40.	4.5	6
66	Radio emission from colliding outflows in high-mass X-ray binaries with strongly magnetized neutron stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	5
67	Inverse Compton Cascades in Pair-producing Gaps: Effects of Triplet Pair Production. <i>Astrophysical Journal</i> , 2019, 883, 66.	4.5	4
68	High-Energy Neutrinos from Blazar Flares and Implications of TXS 0506+056. <i>EPJ Web of Conferences</i> , 2019, 210, 03006.	0.3	4
69	Deciphering the properties of the central engine in GRB collapsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 2910-2921.	4.4	4
70	A numerical study of long-term multiwavelength blazar variability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 6103-6120.	4.4	4
71	THE TIME-DEPENDENT ONE-ZONE HADRONIC MODEL: FIRST PRINCIPLES. <i>International Journal of Modern Physics Conference Series</i> , 2012, 08, 19-24.	0.7	3
72	On the Connection of Radio and γ -Ray Emission in Blazars. <i>Galaxies</i> , 2019, 7, 3.	3.0	3

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73	Circumnuclear Dust in AP Librae and the Source of Its VHE Emission. <i>Astrophysical Journal</i> , 2022, 924, 57.	4.5	3
74	Time dependent photon and neutrino emission from Mkr 421 in the context of the one-zone leptohadronic model. <i>EPJ Web of Conferences</i> , 2013, 61, 05005.	0.3	1
75	Radio emission from Sgr A*: pulsar transits through the accretion disc. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 468, L26-L30.	3.3	1
76	X-ray plateaus in the context of the one-zone SSC model for GRB afterglows. , 2010, , .		0
77	AUTOMATIC QUENCHING OF $\hat{\Gamma}^3$ -RAY EMISSION IN COMPACT ASTROPHYSICAL SOURCES. <i>International Journal of Modern Physics Conference Series</i> , 2012, 08, 384-387.	0.7	0
78	Time-dependent modelling of PKS 2155-304 in a low state: one- or two-zone emission modelling?. <i>EPJ Web of Conferences</i> , 2013, 61, 05013.	0.3	0
79	NEUTRINO AND UHECR SPECTRA FROM MRK 421. <i>International Journal of Modern Physics Conference Series</i> , 2014, 28, 1460206.	0.7	0
80	Anatomy of a gamma-ray burst. <i>Nature Astronomy</i> , 2017, 1, 567-568.	10.1	0
81	Effects of the upper cutoff of the electron distribution on the light curves of GRB afterglows. , 2011, , .		0
82	Afterglow emission in the context of an 'one-zone' radiation-acceleration model. , 2012, , .		0
83	The many faces of blazar emission in the context of hadronic models. , 2017, , .		0