

Maria Petropoulou

List of Publications by Year in descending order

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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	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
2	Circumnuclear Dust in AP Librae and the Source of Its VHE Emission. <i>Astrophysical Journal</i> , 2022, 924, 57.	4.5	3
3	The spectra of IceCube neutrino (SIN) candidate sources – II. Source characterization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 2671-2688.	4.4	13
4	A study of natural frequencies in a dynamic corona – disk system. <i>Astronomy and Astrophysics</i> , 2022, 662, A118.	5.1	11
5	Hadronic X-Ray Flares from Blazars. <i>Astrophysical Journal</i> , 2021, 906, 131.	4.5	10
6	A marginally fast-cooling proton – synchrotron model for prompt GRBs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 1367-1381.	4.4	12
7	Neutrino signal dependence on gamma-ray burst emission mechanism. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 034.	5.4	24
8	Secondary Energization in Compressing Plasmoids during Magnetic Reconnection. <i>Astrophysical Journal</i> , 2021, 912, 48.	4.5	34
9	The Observability of Plasmoid-powered γ -Ray Flares with the Fermi Large Area Telescope. <i>Astrophysical Journal</i> , 2021, 912, 40.	4.5	6
10	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
11	Multi-messenger emission from the parsec-scale jet of the flat-spectrum radio quasar PKS 1502+106 coincident with high-energy neutrino IceCube-190730A. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 082.	5.4	16
12	Interplasmoid Compton scattering and the Compton dominance of BL Lacs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 549-555.	4.4	14
13	Unraveling the Complex Behavior of Mrk 421 with Simultaneous X-Ray and VHE Observations during an Extreme Flaring Activity in 2013 April. <i>Astrophysical Journal, Supplement Series</i> , 2020, 248, 29.	7.7	25
14	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
15	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.	8.3	26
16	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
17	Multi-epoch Modeling of TXS 0506+056 and Implications for Long-term High-energy Neutrino Emission. <i>Astrophysical Journal</i> , 2020, 891, 115.	4.5	53
18	Inverse Compton signatures of gamma-ray burst afterglows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 974-986.	4.4	15

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19	A Neutral Beam Model for High-energy Neutrino Emission from the Blazar TXS 0506+056. <i>Astrophysical Journal</i> , 2020, 889, 118.	4.5	39
20	Proton Synchrotron Gamma-Rays and the Energy Crisis in Blazars. <i>Astrophysical Journal Letters</i> , 2020, 893, L20.	8.3	23
21	Comprehensive Multimessenger Modeling of the Extreme Blazar 3HSP J095507.9+355101 and Predictions for IceCube. <i>Astrophysical Journal</i> , 2020, 899, 113.	4.5	27
22	High-energy Neutrino and Gamma-Ray Emission from Tidal Disruption Events. <i>Astrophysical Journal</i> , 2020, 902, 108.	4.5	43
23	Relativistic Magnetic Reconnection in Electron-Positron-Proton Plasmas: Implications for Jets of Active Galactic Nuclei. <i>Astrophysical Journal</i> , 2019, 880, 37.	4.5	58
24	Inverse Compton Cascades in Pair-producing Gaps: Effects of Triplet Pair Production. <i>Astrophysical Journal</i> , 2019, 883, 66.	4.5	4
25	A Two-zone Model for Blazar Emission: Implications for TXS 0506+056 and the Neutrino Event IceCube-170922A. <i>Astrophysical Journal</i> , 2019, 886, 23.	4.5	58
26	High-Energy Neutrinos from Blazar Flares and Implications of TXS 0506+056. <i>EPJ Web of Conferences</i> , 2019, 210, 03006.	0.3	4
27	NGC 300 ULX1: spin evolution, super-Eddington accretion, and outflows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 5225-5231.	4.4	41
28	TXS 0506+056, the first cosmic neutrino source, is not a BL Lac. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 484, L104-L108.	3.3	96
29	On the Connection of Radio and $\hat{\Gamma}^3$ -Ray Emission in Blazars. <i>Galaxies</i> , 2019, 7, 3.	3.0	3
30	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.	4.4	71
31	Radiative signatures of plasmoid-dominated reconnection in blazar jets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 65-82.	4.4	54
32	Plasmoid statistics in relativistic magnetic reconnection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 3797-3812.	4.4	20
33	X-ray mapping of the stellar wind in the binary PSR J2032+4127/MT91 \hat{A} 213. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 474, L22-L26.	3.3	10
34	Patterns of variability in supercritical hadronic systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 2917-2925.	4.4	7
35	The steady growth of the high-energy spectral cut-off in relativistic magnetic reconnection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 5687-5701.	4.4	62
36	Detection of an Optical/UV Jet/Counterjet and Multiple Spectral Components in M84. <i>Astrophysical Journal</i> , 2018, 860, 9.	4.5	12

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37	A Multimessenger Picture of the Flaring Blazar TXS 0506+056: Implications for High-energy Neutrino Emission and Cosmic-Ray Acceleration. <i>Astrophysical Journal</i> , 2018, 864, 84.	4.5	184
38	Blazar Flares as an Origin of High-energy Cosmic Neutrinos?. <i>Astrophysical Journal</i> , 2018, 865, 124.	4.5	139
39	Extreme scattering events from axisymmetric plasma lenses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 2685-2693.	4.4	16
40	Identification of two new HMXBs in the LMC: an $\dot{\gamma}$ -ray pulsar and a probable SFXT. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 220-231.	4.4	14
41	Anatomy of a gamma-ray burst. <i>Nature Astronomy</i> , 2017, 1, 567-568.	10.1	0
42	Point-source and diffuse high-energy neutrino emission from Type II supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 1881-1893.	4.4	33
43	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.	4.4	22
44	Collapsar $\dot{\gamma}$ -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
45	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
46	A hadronic minute-scale GeV flare from quasar 3C 279?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 467, L16-L20.	3.3	24
47	The many faces of blazar emission in the context of hadronic models. , 2017, , .		0
48	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.	4.4	130
49	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.	4.4	15
50	Blazar flares powered by plasmoids in relativistic reconnection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 3325-3343.	4.4	109
51	PROPERTIES OF BLAZAR JETS DEFINED BY AN ECONOMY OF POWER. <i>Astrophysical Journal Letters</i> , 2016, 825, L11.	8.3	25
52	Time-dependent neutrino emission from Mrk 421 during flares and predictions for IceCube. <i>Astroparticle Physics</i> , 2016, 80, 115-130.	4.3	34
53	Radio synchrotron emission from secondary electrons in interaction-powered supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 44-66.	4.4	19
54	The X-ray dust-scattered rings of the black hole low-mass binary V404 Cyg. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 4426-4441.	4.4	24

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55	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
56	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
57	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
58	Spectral signatures of compact sources in the inverse Compton catastrophe limit. Monthly Notices of the Royal Astronomical Society, 2015, 452, 3226-3245.	4.4	8
59	A simplified view of blazars: the neutrino background. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1877-1887.	4.4	82
60	Relativistic jets shine through shocks or magnetic reconnection?. Monthly Notices of the Royal Astronomical Society, 2015, 450, 183-191.	4.4	233
61	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
62	Time-dependent modelling of PKS 2155-304 in a low state. Astronomy and Astrophysics, 2014, 571, A83.	5.1	15
63	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
64	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
65	Hadronic supercriticality as a trigger for γ -ray burst emission. Monthly Notices of the Royal Astronomical Society, 2014, 444, 2186-2199.	4.4	11
66	Self-consistent neutrino and UHE cosmic ray spectra from Mrk 421. Astroparticle Physics, 2014, 54, 61-66.	4.3	32
67	One-zone synchrotron self-Compton model for the core emission of Centaurus A revisited. Astronomy and Astrophysics, 2014, 562, A12.	5.1	33
68	NEUTRINO AND UHECR SPECTRA FROM MRK 421. International Journal of Modern Physics Conference Series, 2014, 28, 1460206.	0.7	0
69	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
70	Time dependent photon and neutrino emission from Mrk 421 in the context of the one-zone leptohadronic model. EPJ Web of Conferences, 2013, 61, 05005.	0.3	1
71	Spontaneously quenched γ -ray spectra from compact sources. Astronomy and Astrophysics, 2013, 557, A48.	5.1	6
72	Time-dependent modelling of PKS 2155-304 in a low state: one- or two-zone emission modelling?. EPJ Web of Conferences, 2013, 61, 05013.	0.3	0

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73	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
74	THE TIME-DEPENDENT ONE-ZONE HADRONIC MODEL: FIRST PRINCIPLES. International Journal of Modern Physics Conference Series, 2012, 08, 19-24.	0.7	3
75	AUTOMATIC QUENCHING OF $\hat{\Gamma}^3$ -RAY EMISSION IN COMPACT ASTROPHYSICAL SOURCES. International Journal of Modern Physics Conference Series, 2012, 08, 384-387.	0.7	0
76	Temporal signatures of leptohadronic feedback mechanisms in compact sources. Monthly Notices of the Royal Astronomical Society, 2012, 421, 2325-2341.	4.4	27
77	Afterglow emission in the context of an 'one-zone' radiation-acceleration model. , 2012, , .		0
78	Effects of a low electron distribution cutoff on multiwavelength spectra and light curves of GRB afterglows. Astronomy and Astrophysics, 2011, 531, A76.	5.1	9
79	Implications of automatic photon quenching on compact gamma-ray sources. Astronomy and Astrophysics, 2011, 532, A11.	5.1	18
80	Effects of the upper cutoff of the electron distribution on the light curves of GRB afterglows. , 2011, , .		0
81	X-ray plateaus in the context of the one-zone SSC model for GRB afterglows. , 2010, , .		0
82	On the multiwavelength emission from gamma ray burst afterglows. Astronomy and Astrophysics, 2009, 507, 599-610.	5.1	20
83	Radio emission from colliding outflows in high-mass X-ray binaries with strongly magnetized neutron stars. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	5