

Maxim V Barkov

List of Publications by Year in descending order

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66
papers

2,423
citations

218381

26
h-index

243296

44
g-index

68
all docs

68
docs citations

68
times ranked

2258
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic acceleration of relativistic active galactic nucleus jets. Monthly Notices of the Royal Astronomical Society, 0, 380, 51-70.	1.6	337
2	Magnetic acceleration of ultrarelativistic jets in gamma-ray burst sources. Monthly Notices of the Royal Astronomical Society, 2009, 394, 1182-1212.	1.6	303
3	Activation of the Blandford-Znajek mechanism in collapsing stars. Monthly Notices of the Royal Astronomical Society, 2009, 397, 1153-1168.	1.6	107
4	Stellar explosions powered by the Blandford-Znajek mechanism. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 385, L28-L32.	1.2	93
5	GAMMA-RAY FLARES FROM RED GIANT/JET INTERACTIONS IN ACTIVE GALACTIC NUCLEI. Astrophysical Journal, 2010, 724, 1517-1523.	1.6	90
6	GRB 170817A Associated with GW170817: Multi-frequency Observations and Modeling of Prompt Gamma-Ray Emission. Astrophysical Journal Letters, 2018, 852, L30.	3.0	89
7	Magnetar-energized supernova explosions and gamma-ray burst jets. Monthly Notices of the Royal Astronomical Society, 0, 382, 1029-1040.	1.6	86
8	FRB Periodicity: Mild Pulsars in Tight O/B-star Binaries. Astrophysical Journal Letters, 2020, 893, L39.	3.0	85
9	RAPID TeV VARIABILITY IN BLAZARS AS A RESULT OF JET-STAR INTERACTION. Astrophysical Journal, 2012, 749, 119.	1.6	82
10	Tearing instability in relativistic magnetically dominated plasmas. Monthly Notices of the Royal Astronomical Society, 2007, 374, 415-426.	1.6	77
11	Model of the extended emission of short gamma-ray bursts. Monthly Notices of the Royal Astronomical Society, 2011, 417, 2161-2165.	1.6	67
12	Simulations of stellar/pulsar-wind interaction along one full orbit. Astronomy and Astrophysics, 2012, 544, A59.	2.1	67
13	Clouds and red giants interacting with the base of AGN jets. Astronomy and Astrophysics, 2012, 539, A69.	2.1	59
14	Supercollapsars and their X-ray bursts. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 402, L25-L29.	1.2	55
15	Close binary progenitors of gamma-ray bursts. Monthly Notices of the Royal Astronomical Society, 2010, 401, 1644-1656.	1.6	52
16	PHOTOSPHERIC EMISSION FROM COLLAPSAR JETS IN 3D RELATIVISTIC HYDRODYNAMICS. Astrophysical Journal Letters, 2015, 814, L29.	3.0	51
17	Scenarios for Ultrafast Gamma-Ray Variability in AGN. Astrophysical Journal, 2017, 841, 61.	1.6	47
18	STAR-JET INTERACTIONS AND GAMMA-RAY OUTBURSTS FROM 3C454.3. Astrophysical Journal, 2013, 774, 113.	1.6	41

#	ARTICLE	IF	CITATIONS
19	Accretion of a massive magnetized torus on a rotating black hole. <i>New Astronomy</i> , 2011, 16, 46-56.	0.8	40
20	Recycling of neutron stars in common envelopes and hypernova explosions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 944-958.	1.6	39
21	INTERPRETATION OF THE FLARES OF M87 AT TeV ENERGIES IN THE CLOUD-JET INTERACTION SCENARIO. <i>Astrophysical Journal</i> , 2012, 755, 170.	1.6	38
22	Large-scale flow dynamics and radiation in pulsar γ -ray binaries. <i>Astronomy and Astrophysics</i> , 2011, 535, A20.	2.1	37
23	The photospheric origin of the Yonetoku relation in gamma-ray bursts. <i>Nature Communications</i> , 2019, 10, 1504.	5.8	36
24	3D dynamics and morphology of bow-shock pulsar wind nebulae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 4760-4784.	1.6	35
25	Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout. <i>Astroparticle Physics</i> , 2019, 111, 35-53.	1.9	35
26	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.	1.6	28
27	Nonlinear Particle Acceleration and Thermal Particles in GRB Afterglows. <i>Astrophysical Journal</i> , 2017, 835, 248.	1.6	27
28	Kinetic γ -jets from fast-moving pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 2041-2053.	1.6	26
29	Direct wind accretion and jet launch in binary systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 1351-1359.	1.6	21
30	Relativistic tearing and drift-kink instabilities in two-fluid simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1939-1947.	1.6	21
31	MAGNETIC ACCELERATION OF ULTRARELATIVISTIC GRB AND AGN JETS. <i>International Journal of Modern Physics D</i> , 2008, 17, 1669-1675.	0.9	20
32	The origin of the X-ray-emitting object moving away from PSR B1259-63. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 456, L64-L68.	1.2	20
33	A multidimensional numerical scheme for two-fluid relativistic magnetohydrodynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 438, 704-716.	1.6	17
34	A hydrodynamics-informed, radiation model for HESS J0632+057 from radio to gamma-rays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 1320-1326.	1.6	16
35	Jets and gamma-ray emission from isolated accreting black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 589-594.	1.6	14
36	Prospects for Cherenkov Telescope Array Observations of the Young Supernova Remnant RX J1713.7-3946. <i>Astrophysical Journal</i> , 2017, 840, 74.	1.6	14

#	ARTICLE	IF	CITATIONS
37	HESS J0632+057: hydrodynamics and non-thermal emission. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 471, L150-L154.	1.2	13
38	On the nature of radio filaments near the Galactic Centre. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 489, L28-L31.	1.2	13
39	A Semianalytic Afterglow with Thermal Electrons and Synchrotron Self-Compton Emission. Astrophysical Journal, 2022, 924, 40.	1.6	11
40	Interaction of a cosmological gamma-ray burst with a dense molecular cloud and the formation of jets. Astronomy Reports, 2005, 49, 24-35.	0.2	9
41	Peeking Between the Pulses: The Far-UV Spectrum of the Previously Unseen White Dwarf in AR Scorpii. Astrophysical Journal, 2021, 908, 195.	1.6	9
42	Model of ejection of matter from non-stationary dense stellar clusters and chaotic motion of gravitating shells. Monthly Notices of the Royal Astronomical Society, 2002, 334, 338-344.	1.6	8
43	Signatures of very massive stars: supercollapsars and their cosmological rate. Monthly Notices of the Royal Astronomical Society, 2014, 439, 3520-3525.	1.6	8
44	The Maximum Energy of Shock-accelerated Electrons in a Microturbulent Magnetic Field. Astrophysical Journal, 2021, 906, 33.	1.6	8
45	An exact general-relativity solution for the motion and intersections of self-gravitating shells in the field of a massive black hole. Journal of Experimental and Theoretical Physics, 2002, 95, 371-391.	0.2	7
46	Hard X-Ray bursts in collapse of supermassive stars. Astrophysical Bulletin, 2010, 65, 217-222.	0.3	6
47	Relativistic hydrodynamical simulations of the effects of the stellar wind and the orbit on high-mass microquasar jets. Monthly Notices of the Royal Astronomical Society, 2022, 510, 3479-3494.	1.6	6
48	Formation of periodic FRB in binary systems with eccentricity. Monthly Notices of the Royal Astronomical Society, 2022, 515, 4217-4228.	1.6	6
49	The thermal evolution of Thorne-Zytkow objects. Astronomy Reports, 2001, 45, 230-235.	0.2	5
50	Tilting instability of magnetically confined spheromaks. Journal of Plasma Physics, 2020, 86, .	0.7	5
51	Dynamics and Emission of Wind-powered Afterglows of Gamma-Ray Bursts: Flares, Plateaus, and Steep Decays. Astrophysical Journal, 2021, 907, 109.	1.6	5
52	Fast Radio Bursts by High-frequency Synchrotron Maser Emission Generated at the Reverse Shock of a Powerful Magnetar Flare. Astrophysical Journal, 2022, 927, 2.	1.6	5
53	Infrared Afterglow of the Gamma Ray Burst GRB041219 as the Result of Reradiation from Dust in a Circumstellar Cloud. Astrophysics, 2005, 48, 369-373.	0.1	4
54	The Major Role of Eccentricity in the Evolution of Colliding Pulsar-Stellar Winds. Universe, 2021, 7, 277.	0.9	4

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55	The Afterglow of a Dense Molecular Cloud after the Passage of a Cosmological Gamma-Ray Burst. <i>Astronomy Reports</i> , 2005, 49, 611.	0.2	3
56	Central engines of Gamma Ray Bursts. Magnetic mechanism in the collapsar model.. , 2008, , .		3
57	CLOSE BINARY PROGENITORS OF HYPERNOVAE. <i>International Journal of Modern Physics Conference Series</i> , 2012, 08, 209-219.	0.7	3
58	Gamma-ray emission of hot astrophysical plasma. <i>Physical Review D</i> , 2019, 99, .	1.6	3
59	On chaotic behavior of gravitating stellar shells. <i>Chaos</i> , 2005, 15, 013104.	1.0	2
60	Fast-moving pulsars as probes of interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 2605-2615.	1.6	2
61	Radio afterglow of magnetarsâ€™ giant flares. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 6093-6110.	1.6	2
62	Hyper-accreting tori of Gamma Ray Bursters. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	1
63	Model of Ejection of Matter from Dense Stellar Cluster and Chaotic Motion of Gravitating Shells. <i>Lecture Notes in Physics</i> , 2003, , 357-364.	0.3	0
64	Ultrafast VHE Gamma-Ray Flares of ICÂ³10. <i>Proceedings of the International Astronomical Union</i> , 2016, 12, 157-163.	0.0	0
65	3D relativistic MHD simulations of bow-shock Pulsar Wind Nebulae with highly asymmetric geometry. <i>Journal of Physics: Conference Series</i> , 2019, 1225, 012001.	0.3	0
66	On the nature of radio filaments near the Galactic Center. <i>Journal of Physics: Conference Series</i> , 2020, 1623, 012001.	0.3	0