

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
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68
all docs

68
docs citations

68
times ranked

2258
citing authors

#	ARTICLE	IF	CITATIONS
1	A Semianalytic Afterglow with Thermal Electrons and Synchrotron Self-Compton Emission. <i>Astrophysical Journal</i> , 2022, 924, 40.	1.6	11
2	Fast Radio Bursts by High-frequency Synchrotron Maser Emission Generated at the Reverse Shock of a Powerful Magnetar Flare. <i>Astrophysical Journal</i> , 2022, 927, 2.	1.6	5
3	Relativistic hydrodynamical simulations of the effects of the stellar wind and the orbit on high-mass microquasar jets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 3479-3494.	1.6	6
4	Formation of periodic FRB in binary systems with eccentricity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 4217-4228.	1.6	6
5	Dynamics and Emission of Wind-powered Afterglows of Gamma-Ray Bursts: Flares, Plateaus, and Steep Decays. <i>Astrophysical Journal</i> , 2021, 907, 109.	1.6	5
6	Peeking Between the Pulses: The Far-UV Spectrum of the Previously Unseen White Dwarf in AR Scorpii. <i>Astrophysical Journal</i> , 2021, 908, 195.	1.6	9
7	Radio afterglow of magnetarsâ€™ giant flares. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 6093-6110.	1.6	2
8	The Major Role of Eccentricity in the Evolution of Colliding Pulsar-Stellar Winds. <i>Universe</i> , 2021, 7, 277.	0.9	4
9	The Maximum Energy of Shock-accelerated Electrons in a Microturbulent Magnetic Field. <i>Astrophysical Journal</i> , 2021, 906, 33.	1.6	8
10	Fast-moving pulsars as probes of interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 2605-2615.	1.6	2
11	On the nature of radio filaments near the Galactic Center. <i>Journal of Physics: Conference Series</i> , 2020, 1623, 012001.	0.3	0
12	Tilting instability of magnetically confined spheromaks. <i>Journal of Plasma Physics</i> , 2020, 86, .	0.7	5
13	FRB Periodicity: Mild Pulsars in Tight O/B-star Binaries. <i>Astrophysical Journal Letters</i> , 2020, 893, L39.	3.0	85
14	On the nature of radio filaments near the Galactic Centre. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 489, L28-L31.	1.2	13
15	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
16	Kinetic â€™jetsâ€™ from fast-moving pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 2041-2053.	1.6	26
17	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
18	Gamma-ray emission of hot astrophysical plasma. <i>Physical Review D</i> , 2019, 99, .	1.6	3

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19	The photospheric origin of the Yonetoku relation in gamma-ray bursts. <i>Nature Communications</i> , 2019, 10, 1504.	5.8	36
20	Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout. <i>Astroparticle Physics</i> , 2019, 111, 35-53.	1.9	35
21	GRB 170817A Associated with GW170817: Multi-frequency Observations and Modeling of Prompt Gamma-Ray Emission. <i>Astrophysical Journal Letters</i> , 2018, 852, L30.	3.0	89
22	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
23	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
24	Nonlinear Particle Acceleration and Thermal Particles in GRB Afterglows. <i>Astrophysical Journal</i> , 2017, 835, 248.	1.6	27
25	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
26	Scenarios for Ultrafast Gamma-Ray Variability in AGN. <i>Astrophysical Journal</i> , 2017, 841, 61.	1.6	47
27	HESS J0632+057: hydrodynamics and non-thermal emission. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 471, L150-L154.	1.2	13
28	Ultrafast VHE Gamma-Ray Flares of IC 310. <i>Proceedings of the International Astronomical Union</i> , 2016, 12, 157-163.	0.0	0
29	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
30	PHOTOSPHERIC EMISSION FROM COLLAPSAR JETS IN 3D RELATIVISTIC HYDRODYNAMICS. <i>Astrophysical Journal Letters</i> , 2015, 814, L29.	3.0	51
31	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
32	Signatures of very massive stars: supercollapsars and their cosmological rate. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 3520-3525.	1.6	8
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	STAR-JET INTERACTIONS AND GAMMA-RAY OUTBURSTS FROM 3C454.3. <i>Astrophysical Journal</i> , 2013, 774, 113.	1.6	41
35	RAPID TeV VARIABILITY IN BLAZARS AS A RESULT OF JET-STAR INTERACTION. <i>Astrophysical Journal</i> , 2012, 749, 119.	1.6	82
36	CLOSE BINARY PROGENITORS OF HYPERNOVAE. <i>International Journal of Modern Physics Conference Series</i> , 2012, 08, 209-219.	0.7	3

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37	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
38	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
39	Simulations of stellar/pulsar-wind interaction along one full orbit. <i>Astronomy and Astrophysics</i> , 2012, 544, A59.	2.1	67
40	Clouds and red giants interacting with the base of AGN jets. <i>Astronomy and Astrophysics</i> , 2012, 539, A69.	2.1	59
41	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
42	Large-scale flow dynamics and radiation in pulsar γ -ray binaries. <i>Astronomy and Astrophysics</i> , 2011, 535, A20.	2.1	37
43	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
44	Model of the extended emission of short gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 2161-2165.	1.6	67
45	Accretion of a massive magnetized torus on a rotating black hole. <i>New Astronomy</i> , 2011, 16, 46-56.	0.8	40
46	Hard X-Ray bursts in collapse of supermassive stars. <i>Astrophysical Bulletin</i> , 2010, 65, 217-222.	0.3	6
47	Supercollapsars and their X-ray bursts. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 402, L25-L29.	1.2	55
48	Close binary progenitors of gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 401, 1644-1656.	1.6	52
49	GAMMA-RAY FLARES FROM RED GIANT/JET INTERACTIONS IN ACTIVE GALACTIC NUCLEI. <i>Astrophysical Journal</i> , 2010, 724, 1517-1523.	1.6	90
50	Magnetic acceleration of ultrarelativistic jets in gamma-ray burst sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 394, 1182-1212.	1.6	303
51	Activation of the Blandford-Znajek mechanism in collapsing stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 397, 1153-1168.	1.6	107
52	Stellar explosions powered by the Blandford-Znajek mechanism. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2008, 385, L28-L32.	1.2	93
53	MAGNETIC ACCELERATION OF ULTRARELATIVISTIC GRB AND AGN JETS. <i>International Journal of Modern Physics D</i> , 2008, 17, 1669-1675.	0.9	20
54	Hyper-accreting tori of Gamma Ray Bursters. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	1

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55	Central engines of Gamma Ray Bursts. Magnetic mechanism in the collapsar model.. , 2008, , .		3
56	Tearing instability in relativistic magnetically dominated plasmas. Monthly Notices of the Royal Astronomical Society, 2007, 374, 415-426.	1.6	77
57	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
58	The Afterglow of a Dense Molecular Cloud after the Passage of a Cosmological Gamma-Ray Burst. Astronomy Reports, 2005, 49, 611.	0.2	3
59	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
60	On chaotic behavior of gravitating stellar shells. Chaos, 2005, 15, 013104.	1.0	2
61	Model of Ejection of Matter from Dense Stellar Cluster and Chaotic Motion of Gravitating Shells. Lecture Notes in Physics, 2003, , 357-364.	0.3	0
62	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
63	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
64	The thermal evolution of Thorne-Zytkow objects. Astronomy Reports, 2001, 45, 230-235.	0.2	5
65	Magnetic acceleration of relativistic active galactic nucleus jets. Monthly Notices of the Royal Astronomical Society, 0, 380, 51-70.	1.6	337
66	Magnetar-energized supernova explosions and gamma-ray burst jets. Monthly Notices of the Royal Astronomical Society, 0, 382, 1029-1040.	1.6	86