

Sergey Karpov

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

1,116
citations

687363

13
h-index

414414

32
g-index

98
all docs

98
docs citations

98
times ranked

1573
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband observations of the naked-eye Γ -ray burst GRB 080319B. <i>Nature</i> , 2008, 455, 183-188.	27.8	449
2	Transition from fireball to Poynting-flux-dominated outflow in the three-episode GRB 160625B. <i>Nature Astronomy</i> , 2018, 2, 69-75.	10.1	107
3	GRANDMA observations of advanced LIGO's and advanced Virgo's third observational campaign. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 5518-5539.	4.4	63
4	<sc>fink</sc>, a new generation of broker for the LSST community. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 3272-3288.	4.4	42
5	FAST OPTICAL VARIABILITY OF A NAKED-EYE BURST—MANIFESTATION OF THE PERIODIC ACTIVITY OF AN INTERNAL ENGINE. <i>Astrophysical Journal Letters</i> , 2010, 719, L10-L14.	8.3	41
6	Monotonic and cyclic components of radio pulsar spin-down. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 103-117.	4.4	24
7	Wide-field optical monitoring with Mini-MegaTORTORA (MMT-9) multichannel high temporal resolution telescope. <i>Astrophysical Bulletin</i> , 2017, 72, 81-92.	1.3	23
8	Low-rate accretion onto isolated stellar-mass black holes. <i>Astronomy and Astrophysics</i> , 2005, 440, 223-238.	5.1	23
9	Optically Thick Outflows of Supercritical Accretion Discs: Radiative Diffusion Approach. <i>Publication of the Astronomical Society of Japan</i> , 2009, 61, 213-226.	2.5	19
10	On the nature of high reddening of Cygnus OB2 #12 hypergiant. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 491-507.	4.4	17
11	Detection of regular low-amplitude photometric variability of the magnetic dwarf WD0009+501. on the possibility of photometric investigation of exoplanets on the basis of 1-meter class telescopes of the special and crimean astrophysical observatories. <i>Astrophysical Bulletin</i> , 2015, 70, 318-327.	1.3	16
12	Cross-identification of large surveys for finding interstellar extinction. <i>Astrophysical Bulletin</i> , 2012, 67, 82-89.	1.3	15
13	From TORTORA to MegaTORTORA—Results and Prospects of Search for Fast Optical Transients. <i>Advances in Astronomy</i> , 2010, 2010, 1-9.	1.1	14
14	GRB sky distribution puzzles. <i>Astrophysical Bulletin</i> , 2010, 65, 238-249.	1.3	12
15	Optical camera with high temporal resolution to search for transients in the wide field. <i>Astronomische Nachrichten</i> , 2004, 325, 675-675.	1.2	11
16	High-temporal resolution multimode photospectropolarimeter. <i>Astrophysical Bulletin</i> , 2009, 64, 308-316.	1.3	11
17	Evidence of Deterministic Components in the Apparent Randomness of GRBs: Clues of a Chaotic Dynamic. <i>Scientific Reports</i> , 2011, 1, 91.	3.3	11
18	Short time scale pulse stability of the Crab pulsar in the optical band. <i>Astrophysics and Space Science</i> , 2007, 308, 595-599.	1.4	10

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19	Wide and Fast: Monitoring the Sky in Subsecond Domain with the FAVOR and TORTORA Cameras. <i>Advances in Astronomy</i> , 2010, 2010, 1-8.	1.1	9
20	Wide-field subsecond temporal resolution optical monitoring systems for the detection and study of cosmic hazards. <i>Physics-Uspekhi</i> , 2013, 56, 836-842.	2.2	9
21	Discovery of the Sub-second Linearly Polarized Spikes of Synchrotron Origin in the UV Ceti Giant Optical Flare. <i>Publications of the Astronomical Society of Australia</i> , 2017, 34, .	3.4	8
22	Interstellar extinction from photometric surveys: application to four high-latitude areas. <i>Open Astronomy</i> , 2018, 27, 62-69.	0.6	8
23	FAVOR (FAst Variability Optical Registration) - two-telescope complex for detection and investigation of short optical transients. <i>Astronomische Nachrichten</i> , 2004, 325, 677-677.	1.2	7
24	Evidence of long-term cyclic evolution of radio pulsar periods. <i>Advances in Space Research</i> , 2007, 40, 1498-1504.	2.6	7
25	FRAM telescopes and their measurements of aerosol content at the Pierre Auger Observatory and at future sites of the Cherenkov Telescope Array. <i>EPJ Web of Conferences</i> , 2019, 197, 02008.	0.3	7
26	Title is missing!. <i>Physics-Uspekhi</i> , 2006, 49, 324.	2.2	6
27	High temporal resolution coordinate-sensitive detector with gallium-arsenide photocathode. <i>Astrophysical Bulletin</i> , 2009, 64, 386-391.	1.3	6
28	Discovery of the fast optical variability of GRB 080319B and the prospects for wide-field optical monitoring with high time resolution. <i>Physics-Uspekhi</i> , 2010, 53, 406-414.	2.2	6
29	Photometric calibration of a wide-field sky survey data from Mini-MegaTORTORA. <i>Astronomische Nachrichten</i> , 2018, 339, 375-381.	1.2	6
30	A New Method for Aerosol Measurement Using Wide-field Photometry. <i>Astronomical Journal</i> , 2021, 162, 6.	4.7	6
31	Why do we see so few black holes in massive binaries?. <i>Astronomy Letters</i> , 2001, 27, 645-647.	1.0	5
32	Software for detection of optical transients in observations with rapid wide-field camera. <i>Astronomische Nachrichten</i> , 2004, 325, 676-676.	1.2	5
33	TORTORA discovery of Naked-Eye Burst fast optical variability. , 2008, , .		5
34	Cross Catalogue Matching with Virtual Observatory and Parameterization of Stars. <i>Open Astronomy</i> , 2012, 21, .	0.6	5
35	The First Light of Mini-MegaTORTORA Wide-Field Monitoring System. <i>Open Astronomy</i> , 2015, 24, .	0.6	5
36	Statistical analysis of the parameters of gamma-ray bursts with known redshifts and peaked optical light curves. <i>Astrophysical Bulletin</i> , 2015, 70, 400-413.	1.3	5

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37	Verification of Photometric Parallaxes with Gaia DR2 Data. <i>Galaxies</i> , 2019, 7, 7.	3.0	5
38	Key Space and Ground Facilities in GRB Science. <i>Universe</i> , 2022, 8, 373.	2.5	5
39	High time resolution multi-band photo-polarimetric observations of the binary millisecond redback pulsar J1023+0038 with the BTA. <i>Journal of Physics: Conference Series</i> , 2017, 932, 012027.	0.4	4
40	Looking for fast optical bursts from FRB121102: Case study for a small telescopes with sub- μ s temporal resolution. <i>Astronomische Nachrichten</i> , 2019, 340, 613-617.	1.2	4
41	The study of coherent optical pulsations of the millisecond pulsar PSR J1023+0038 on Russian 6m telescope. <i>Astronomische Nachrichten</i> , 2019, 340, 607-612.	1.2	4
42	Search for and Study of Photometric Variability of Magnetic White Dwarfs WD 2047+372 and WD 0009+501. <i>Astrophysical Bulletin</i> , 2019, 74, 172-178.	1.3	4
43	OBSERVATIONS OF TRANSIENT EVENTS WITH MINI-MEGATORTORA WIDE-FIELD MONITORING SYSTEM WITH SUB-SECOND TEMPORAL RESOLUTION. <i>Revista Mexicana De Astronomía Y Astrofísica Serie De Conferencias</i> , 2019, 51, 30-38.	0.2	4
44	Evaluation of scientific CMOS sensors for sky survey applications. , 2020, , .		4
45	Properties of SS433 and ultraluminous X-ray sources in external galaxies. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 278-281.	0.0	3
46	Observational appearances of isolated stellar-mass black hole accretion – Theory and observations. <i>Advances in Space Research</i> , 2008, 42, 523-532.	2.6	3
47	Asymmetrical nebula of the M33 variable GR290 (WR/LBV). <i>Astronomy and Astrophysics</i> , 2020, 635, A201.	5.1	3
48	GRB 190919B: Rapid optical rise explained as a flaring activity. <i>Astronomy and Astrophysics</i> , 2022, 662, A126.	5.1	3
49	Search for the event horizon by means of optical observations with high temporal resolution. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 159-163.	0.0	2
50	Search for fast optical activity of SGR 1806-20 at the SAO RAS 6-m telescope. <i>Astrophysics and Space Science</i> , 2007, 308, 477-479.	1.4	2
51	Position-Sensitive Detector with GaAs photocathode and high time resolution. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2
52	Panoramic detector with high time resolution on base of GaAs photocathode. <i>Proceedings of SPIE</i> , 2008, , .	0.8	2
53	Fast Universal Spectrophotopolarimeter for Robotic Telescopes. <i>Advances in Astronomy</i> , 2010, 2010, 1-6.	1.1	2
54	Status and perspectives of Mini-MegaTORTORA wide-field monitoring system with high temporal resolution. <i>EAS Publications Series</i> , 2013, 61, 465-469.	0.3	2

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55	GISch. , 2015, , .		2
56	New developments in aerosol measurements using stellar photometry. EPJ Web of Conferences, 2019, 197, 02007.	0.3	2
57	Modern Astronomical Surveys for Parameterization of Stars and Interstellar Medium. Communications in Computer and Information Science, 2020, , 108-123.	0.5	2
58	TWO-STATION METEOR OBSERVATIONS WITH MINI-MEGATORTORA AND FAVOR WIDE-FIELD MONITORING SYSTEMS. Revista Mexicana De Astronomía Y Astrofísica Serie De Conferencias, 2019, 51, 127-130.	0.2	2
59	Prototype operations of atmospheric calibration devices for the Cherenkov Telescope Array. , 2019, , .		2
60	Tree rings in Large Synoptic Survey Telescope production sensors: its dependence on radius, wavelength, and back bias voltage. Journal of Astronomical Telescopes, Instruments, and Systems, 2020, 6, 1.	1.8	2
61	CHARACTERIZATION OF MODERN CCD AND CMOS SENSORS FOR SKY SURVEYS. Revista Mexicana De Astronomía Y Astrofísica Serie De Conferencias, 0, 53, 190-197.	0.2	2
62	The supercritical accretion disk in SS 433 and ultraluminous X-ray sources. Proceedings of the International Astronomical Union, 2006, 2, 225-228.	0.0	1
63	Observational manifestations of accretion onto isolated black holes of different masses. Proceedings of the International Astronomical Union, 2006, 2, 391-392.	0.0	1
64	Monitoring with high temporal resolution to search for optical transients in the wide field. AIP Conference Proceedings, 2008, , .	0.4	1
65	Devices and software for optical panoramic observations with microsecond time resolution. AIP Conference Proceedings, 2008, , .	0.4	1
66	Evidences of the central engine activity in the Naked-Eye Burst prompt optical emission. , 2010, , .		1
67	Rapid optical variability of the gamma-ray burst grb 080319b and its central engine. Astrophysical Bulletin, 2010, 65, 223-229.	1.3	1
68	Statistical Properties of GRB Afterglow Parameters as Evidence of Cosmological Evolution of Host Galaxies. EAS Publications Series, 2013, 61, 241-245.	0.3	1
69	The apparent decay of pulsar magnetic fields. Journal of Physics: Conference Series, 2017, 932, 012044.	0.4	1
70	Testing the nonlinearity of the Moravian Instruments G4â€16000 CCD camera. Astronomische Nachrichten, 2018, 339, 391-396.	1.2	1
71	The search for ultraviolet luminous objects in GALEX data. Monthly Notices of the Royal Astronomical Society, 2021, 505, 207-214.	4.4	1
72	Test stand for characterization of optical sensors for astronomy. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1.	1.8	1

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73	Surface features in U-band of ITL devices for the LSST telescope. , 2020, , .		1
74	Wide Field Optical Camera for Search and Investigation of Fast Cosmic Transients. AIP Conference Proceedings, 2004, , .	0.4	0
75	Storing and accessing the largest astronomical catalogues with the SAI CAS project. Proceedings of the International Astronomical Union, 2006, 2, 586-586.	0.0	0
76	On the peculiarities in the rotational frequency evolution of isolated neutron stars. Astrophysics and Space Science, 2007, 308, 551-555.	1.4	0
77	GRB 080319B: the prompt emission of the "Naked Eye Burst" AIP Conference Proceedings, 2008, , .	0.4	0
78	Statistical Analysis of GRBs with Known Redshifts. , 2008, , .		0
79	Multi-objective transforming telescope for wide-field optical monitoring of the sky with high-temporal resolution. , 2010, , .		0
80	Wide-field monitoring strategy for the study of fast optical transients. , 2010, , .		0
81	Optical transient search strategy via wide-field monitoring. Astrophysical Bulletin, 2010, 65, 286-295.	1.3	0
82	High-Speed and Wide-Field Photometry with TORTORA. Advances in Astronomy, 2010, 2010, 1-8.	1.1	0
83	Non-monotonous character of single radio pulsar spin-down. Astrophysical Bulletin, 2011, 66, 478-487.	1.3	0
84	SEARCH FOR ISOLATED BLACK HOLES: PAST, PRESENT, FUTURE. Acta Polytechnica, 2014, 54, 271-274.	0.6	0
85	Untriggered search for rapid optical transients with Mini-MegaTORTORA wide-field monitoring system. Proceedings of the International Astronomical Union, 2016, 12, 85-86.	0.0	0
86	The search for isolated BH candidates based on kinematics of pulsars - their former companions in disrupted binaries. Proceedings of the International Astronomical Union, 2016, 12, 39-40.	0.0	0
87	Evaluation of scientific complementary metal-oxide-semiconductor sensors for sky survey applications. Astronomische Nachrichten, 2019, 340, 638-645.	1.2	0
88	OBSERVATIONAL APPEARANCE OF MAGNETIC FIELD RECONNECTIONS IN SINGLE BLACK HOLE ACCRETION FLOW. , 2002, , .		0
89	Ground-based complex for detection and investigation of fast optical transients in wide field. , 2008, , .		0
90	STATISTICAL PROPERTIES OF GRB AFTERGLOW PARAMETERS AS EVIDENCE OF COSMOLOGICAL EVOLUTION OF THEIR HOST GALAXIES. Acta Polytechnica, 2014, 54, 259-265.	0.6	0

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91	Searching for fast optical transients with Mini-Mega TORTORA wide-field monitoring system. , 2018, , .		0
92	Characterization of atmospheric properties at the future sites of the Cherenkov Telescope Array. , 2019, , .		0
93	Stellar and interstellar parameters from large photometric surveys. Communications of the Byurakan Astrophysical Observatory, 0, , 272-280.	0.0	0