

Grigory I Rubtsov

List of Publications by Year in descending order

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68
papers

2,426
citations

218677

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68
all docs

68
docs citations

68
times ranked

1820
citing authors

#	ARTICLE	IF	CITATIONS
1	Muon lateral distribution function of extensive air showers: Results of the Sydney University Giant Air-shower Recorder versus modern Monte-Carlo simulations. <i>Physical Review D</i> , 2022, 105, .	4.7	1
2	The Cosmic-Ray Composition between 2 PeV and 2 EeV Observed with the TALE Detector in Monocular Mode. <i>Astrophysical Journal</i> , 2021, 909, 178.	4.5	21
3	Observation of Photons above 300 TeV Associated with a High-energy Neutrino from the Cygnus Region. <i>Astrophysical Journal Letters</i> , 2021, 916, L22.	8.3	25
4	Evidence for a Supergalactic Structure of Magnetic Deflection Multiplets of Ultra-high-energy Cosmic Rays. <i>Astrophysical Journal</i> , 2020, 899, 86.	4.5	10
5	Search for Large-scale Anisotropy on Arrival Directions of Ultra-high-energy Cosmic Rays Observed with the Telescope Array Experiment. <i>Astrophysical Journal Letters</i> , 2020, 898, L28.	8.3	13
6	Constraints on the diffuse photon flux with energies above 1018 eV using the surface detector of the Telescope Array experiment. <i>Astroparticle Physics</i> , 2019, 110, 8-14.	4.3	40
7	Search for anomalous features in gamma-ray blazar spectra corrected for the absorption on the extragalactic background light. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 002-002.	5.4	5
8	Lower limit on the ultrahigh-energy proton-to-helium ratio from the measurements of the tail of the distribution. <i>Physical Review D</i> , 2018, 98, .	4.7	8
9	The Cosmic Ray Energy Spectrum between 2 PeV and 2 EeV Observed with the TALE Detector in Monocular Mode. <i>Astrophysical Journal</i> , 2018, 865, 74.	4.5	64
10	Depth of Ultra High Energy Cosmic Ray Induced Air Shower Maxima Measured by the Telescope Array Black Rock and Long Ridge FADC Fluorescence Detectors and Surface Array in Hybrid Mode. <i>Astrophysical Journal</i> , 2018, 858, 76.	4.5	79
11	Muon content of extensive air showers: Comparison of the energy spectra obtained by the Sydney University Giant Air-shower Recorder and by the Pierre Auger Observatory. <i>Physical Review D</i> , 2018, 98, .	4.7	21
12	Constraints on violation of Lorentz invariance from atmospheric showers initiated by multi-TeV photons. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 049-049.	5.4	36
13	Constraints on the flux of γ rays from the measurements of the tail of the distribution. <i>Physical Review D</i> , 2017, 95, .	4.7	16
14	Constraining (pseudo)Conformal Universe and anisotropic inflation with Planck data. <i>EPJ Web of Conferences</i> , 2016, 125, 03009.	0.3	0
15	Constraining the production of cosmic rays by pulsars. <i>Physical Review D</i> , 2016, 94, .	4.7	2
16	SEARCH FOR DIFFERENCES BETWEEN RADIO-LOUD AND RADIO-QUIET GAMMA-RAY PULSAR POPULATIONS WITH FERMI-LAT DATA. <i>Astrophysical Journal</i> , 2016, 833, 271.	4.5	6
17	TIME STRETCHING OF THE GeV EMISSION OF GRBs: FERMI-LAT DATA VERSUS GEOMETRICAL MODEL. <i>Astrophysical Journal</i> , 2016, 824, 28.	4.5	1
18	Statistical methods for cosmic ray composition analysis at the Telescope Array Observatory. <i>Journal of Physics: Conference Series</i> , 2015, 608, 012067.	0.4	3

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19	Revisiting constraints on the (pseudo)conformal universe with Planck data. Physical Review D, 2015, 91, .	4.7	14
20	Constraining the extension of a possible gamma-ray halo of 3C 279 from 2008â€“2014 solar occultations. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 450, L44-L47.	3.3	3
21	Fully automated dual-frequency three-pulse-echo 2DIR spectrometer accessing spectral range from 800 to 4000 wavenumbers. Review of Scientific Instruments, 2014, 85, 083109.	1.3	37
22	Constraining anisotropic models of the early universe with WMAP9 data. Physical Review D, 2014, 89, .	4.7	48
23	Tunka-Rex: Status and results of the first measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 742, 89-94.	1.6	17
24	Prospective constraints on Lorentz violation from ultrahigh-energy photon detection. Physical Review D, 2014, 89, .	4.7	23
25	INDICATIONS OF INTERMEDIATE-SCALE ANISOTROPY OF COSMIC RAYS WITH ENERGY GREATER THAN 57 EeV IN THE NORTHERN SKY MEASURED WITH THE SURFACE DETECTOR OF THE TELESCOPE ARRAY EXPERIMENT. Astrophysical Journal Letters, 2014, 790, L21.	8.3	248
26	Hardware and first results of TUNKA-HiSCORE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 742, 269-270.	1.6	4
27	Primordial scalar perturbations via conformal mechanisms: statistical anisotropy. EPJ Web of Conferences, 2014, 70, 00042.	0.3	0
28	Variable gamma-ray sky at 1 GeV. Journal of Experimental and Theoretical Physics, 2013, 116, 59-70.	0.9	2
29	The HiSCORE experiment and its potential for gamma-ray astronomy. Journal of Physics: Conference Series, 2013, 409, 012120.	0.4	2
30	The energy spectrum of ultra-high-energy cosmic rays measured by the Telescope Array FADC fluorescence detectors in monocular mode. Astroparticle Physics, 2013, 48, 16-24.	4.3	24
31	Upper limit on the flux of photons with energies above 10^{19} eV from the Telescope Array surface detector. Physical Review D, 2013, 88, .	4.7	35
32	Constraints on millicharged particles from Planck data. Physical Review D, 2013, 88, .	4.7	94
33	Theoretical Study of Internal Vibrational Relaxation and Energy Transport in Polyatomic Molecules. Journal of Physical Chemistry A, 2013, 117, 315-323.	2.5	28
34	THE COSMIC-RAY ENERGY SPECTRUM OBSERVED WITH THE SURFACE DETECTOR OF THE TELESCOPE ARRAY EXPERIMENT. Astrophysical Journal Letters, 2013, 768, L1.	8.3	214
35	Tunka-Rex: A radio antenna array for the Tunka experiment. , 2013, , .		3
36	CORRELATIONS OF THE ARRIVAL DIRECTIONS OF ULTRA-HIGH ENERGY COSMIC RAYS WITH EXTRAGALACTIC OBJECTS AS OBSERVED BY THE TELESCOPE ARRAY EXPERIMENT. Astrophysical Journal, 2013, 777, 88.	4.5	43

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37	Search for ultra-high energy photons and neutrinos using Telescope Array surface detector. EPJ Web of Conferences, 2013, 53, 05001.	0.3	6
38	Tunka-Rex: a Radio Extension of the Tunka Experiment. Journal of Physics: Conference Series, 2013, 409, 012076.	0.4	1
39	Search for ultra-high energy photons and neutrinos using Telescope Array surface detector. Journal of Physics: Conference Series, 2013, 409, 012087.	0.4	1
40	Review of the Multimessenger Working Group at UHECR-2012. EPJ Web of Conferences, 2013, 53, 01009.	0.3	9
41	SEARCH FOR ANISOTROPY OF ULTRAHIGH ENERGY COSMIC RAYS WITH THE TELESCOPE ARRAY EXPERIMENT. Astrophysical Journal, 2012, 757, 26.	4.5	52
42	The energy spectrum of Telescope Array's Middle Drum detector and the direct comparison to the High Resolution Fly's Eye experiment. Astroparticle Physics, 2012, 39-40, 109-119.	4.3	21
43	The surface detector array of the Telescope Array experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 689, 87-97.	1.6	249
44	Calculation of cross sections in Lorentz-violating theories. Physical Review D, 2012, 86, .	4.7	27
45	Ultra-high energy cosmic ray correlations with active galactic nuclei in the world dataset. JETP Letters, 2012, 95, 501-503.	1.4	1
46	HiSCORE - The Hundred-sq-km cosmic ORigin explorer. , 2012, , .		7
47	Statistical anisotropy of CMB as a probe of conformal rolling scenario. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 033-033.	5.4	14
48	Gamma-ray burst observations by Fermi Large Area Telescope revisited: new candidates found. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 421, L14-L18.	3.3	9
49	New air fluorescence detectors employed in the Telescope Array experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 676, 54-65.	1.6	178
50	Structure Dependent Energy Transport: Relaxation-Assisted 2DIR Measurements and Theoretical Studies. Journal of Physical Chemistry B, 2011, 115, 11063-11073.	2.6	40
51	The Status of the Telescope Array experiment. Journal of Physics: Conference Series, 2011, 293, 012035.	0.4	18
52	Search for small clusters by auto-correlation analysis from Telescope Array. , 2011, , .		0
53	Search for ultra-high energy photons using Telescope Array surface detector. , 2011, , .		1
54	Constraints on the flux of primary cosmic-ray photons at energies $E > 10^{18}$ GeV from Yakutsk muon data. Physical Review D, 2010, 82, .	4.7	39

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55	The Telescope Array experiment: Status and Prospects. , 2010, , .		7
56	Semiclassical Model for Vibrational Dynamics in Polyatomic Molecules: Investigation of Internal Vibrational Relaxation. Journal of Physical Chemistry C, 2010, 114, 20510-20517.	3.1	26
57	Energy transport via coordination bonds. Journal of Chemical Physics, 2009, 131, 154508.	3.0	41
58	Sensitivity of cosmic-ray experiments to ultrahigh-energy photons: Reconstruction of the spectrum and limits on the superheavy dark matter. Physical Review D, 2009, 80, .	4.7	34
59	Muon content of ultrahigh-energy air showers: Yakutsk data versus simulations. JETP Letters, 2008, 87, 190-194.	1.4	52
60	Air-shower simulations with and without thinning: Artificial fluctuations and their suppression. Physical Review D, 2007, 76, .	4.7	13
61	Constraints on the fraction of primary gamma rays at ultra-high energies from the muon data of the Yakutsk EAS array. JETP Letters, 2007, 85, 131-135.	1.4	28
62	No-thinning simulations of extensive air showers and small-scale fluctuations at the ground level. JETP Letters, 2007, 85, 535-538.	1.4	3
63	Possible observations of new physics in ultrahigh-energy cosmic rays. Physics of Atomic Nuclei, 2007, 70, 170-174.	0.4	1
64	Towards event-by-event studies of the ultrahigh-energy cosmic-ray composition. Astroparticle Physics, 2007, 28, 28-40.	4.3	11
65	Upper limit on the ultrahigh-energy photon flux from AGASA and Yakutsk data. Physical Review D, 2006, 73, .	4.7	57
66	Narrowing the window for millicharged particles by CMB anisotropy. JETP Letters, 2004, 79, 1-5.	1.4	128
67	Ultrafast Singlet Excited-State Polarization in Electronically Asymmetric Ethyne-Bridged Bis[(porphinato)zinc(II)] Complexes. Journal of the American Chemical Society, 2003, 125, 2687-2696.	13.7	124
68	Conformational Dynamics of the Transcriptional Regulator CooA Protein Studied by Subpicosecond Mid-Infrared Vibrational Spectroscopy. Journal of the American Chemical Society, 2001, 123, 10056-10062.	13.7	32