A V Malakhov

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The evidence for unusually high hydrogen abundances in the central part of Valles Marineris on Mars. Icarus, 2022, 374, 114805.	2.5	23
2	Physical Calibrations of the FREND Instrument Installed Onboard TGO Martian Orbiter. Cosmic Research, 2022, 60, 23-37.	0.6	1
3	High Resolution Map of Water in the Martian Regolith Observed by FREND Neutron Telescope Onboard ExoMars TGO. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	3
4	Numerical modeling of mapping of Marian epithermal neutron emission: Applications to FREND investigation onboard ESA's Trace Gas Orbiter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, , 166997.	1.6	0
5	Results from radiation environment measurements aboard ExoMars Trace Gas Orbiter in Mars science orbit in May 2018–December 2019. Icarus, 2021, 361, 114264.	2.5	6
6	ADRON-LR Instrument for Active Neutron Sensing of the Lunar Matter Composition. Solar System Research, 2021, 55, 529-536.	0.7	3
7	lce Permafrost â€~â€~Oases'' Close to Martian Equator: Planet Neutron Mapping Based on Data of FREND Instrument Onboard TGO Orbiter of Russian-European ExoMars Mission. Astronomy Letters, 2020, 46, 407-421.	1.0	12
8	Promising Neutron Detector with Anticoincidence Protection. Physics of Particles and Nuclei Letters, 2019, 16, 93-99.	0.4	0
9	Mars Science Laboratory Dynamic Albedo of Neutrons passive mode data and results from sols 753 to 1292: Pahrump Hills to Naukluft Plateau. Icarus, 2019, 330, 75-90.	2.5	4
10	Results from the dynamic albedo of neutrons (DAN) passive mode experiment: Yellowknife Bay to Amargosa Valley (Sols 201–753). Icarus, 2018, 299, 513-537.	2.5	7
11	Fine Resolution Epithermal Neutron Detector (FREND) Onboard the ExoMars Trace Gas Orbiter. Space Science Reviews, 2018, 214, 1.	8.1	33
12	Observed diurnal variations in Mars Science Laboratory Dynamic Albedo of Neutrons passive mode data. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 892, 70-83.	1.6	0
13	Study of the Microphonics for Prospective Space-Based Neutron and Gamma-Ray Detectors and Methods for its Suppression. Cosmic Research, 2018, 56, 208-212.	0.6	0
14	The ADRON-RM Instrument Onboard the ExoMars Rover. Astrobiology, 2017, 17, 585-594.	3.0	17
15	Monitoring of the time and spatial distribution of neutron-flux spectral density outside the Russian segment of the International Space Station based on data from the BTN-Neutron space experiment. Cosmic Research, 2017, 55, 110-123.	0.6	6
16	Hydrogen distribution in the lunar polar regions. Icarus, 2017, 283, 20-30.	2.5	75
17	A comparative study of LaBr3(Ce3+) and CeBr3 based gamma-ray spectrometers for planetary remote sensing applications. Review of Scientific Instruments, 2016, 87, 085112.	1.3	36
18	Possible application of scintillation detectors with semiconductor PMT for cosmic-neutron and gamma-ray detection. Physics of Atomic Nuclei, 2016, 79, 694-699.	0.4	2

A V MALAKHOV

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19	Active neutron sensing of the Martian surface with the DAN experiment onboard the NASA "Curiosity― Mars rover: Two types of soil with different water content in the gale crater. Astronomy Letters, 2016, 42, 251-259.	1.0	18
20	Hydrogen and chlorine abundances in the Kimberley formation of Gale crater measured by the DAN instrument on board the Mars Science Laboratory Curiosity rover. Journal of Geophysical Research E: Planets, 2016, 121, 836-845.	3.6	23
21	Next generation of scintillation detector based on cerium bromide crystal for space application in the gamma-ray spectrometer of the Mercurian gamma-ray and neutron spectrometer. Instruments and Experimental Techniques, 2016, 59, 569-577.	0.5	7
22	Physical calibration of the LEND space-based neutron telescope: the sensitivity and the angular resolution. Instruments and Experimental Techniques, 2016, 59, 578-591.	0.5	3
23	Test facility for nuclear planetology instruments. Physics of Particles and Nuclei Letters, 2016, 13, 224-233.	0.4	5
24	The variations of neutron component of lunar radiation background from LEND/LRO observations. Planetary and Space Science, 2016, 122, 53-65.	1.7	13
25	Evidence for the sequestration of hydrogen-bearing volatiles towards the Moon's southern pole-facing slopes. Icarus, 2015, 255, 88-99.	2.5	14
26	Data processing of the active neutron experiment DAN for a Martian regolith investigation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 789, 114-127.	1.6	24
27	Water equivalent hydrogen estimates from the first 200 sols of Curiosity's traverse (Bradbury) Tj ETQq1 1 C experiment. Icarus, 2015, 262, 102-123.	.784314 rg 2.5	gBT /Overlock 16
28	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	12.6	323
29	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	12.6	687
30	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	12.6	508
31	Mars' Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. Science, 2014, 343, 1244797.	12.6	475
32	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	12.6	246
33	Local variations of bulk hydrogen and chlorineâ€equivalent neutron absorption content measured at the contact between the Sheepbed and Gillespie Lake units in Yellowknife Bay, Gale Crater, using the DAN instrument onboard Curiosity. Journal of Geophysical Research E: Planets, 2014, 119, 1259-1275.	3.6	33
34	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	12.6	327
35	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	12.6	280
36	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	12.6	367

Α V ΜΑΙΑΚΗΟΥ

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37	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	12.6	326
38	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	12.6	215
39	Neutron background environment measured by the Mars Science Laboratory's Dynamic Albedo of Neutrons instrument during the first 100 sols. Journal of Geophysical Research E: Planets, 2013, 118, 2400-2412.	3.6	28
40	High spatial resolution studies of epithermal neutron emission from the lunar poles: Constraints on hydrogen mobility. Journal of Geophysical Research, 2012, 117, .	3.3	38
41	Dynamic Albedo of Neutrons (DAN) Experiment Onboard NASA's Mars Science Laboratory. Space Science Reviews, 2012, 170, 559-582.	8.1	87
42	Testing lunar permanently shadowed regions for water ice: LEND results from LRO. Journal of Geophysical Research, 2012, 117, .	3.3	49
43	Testing polar spots of waterâ€rich permafrost on the Moon: LEND observations onboard LRO. Journal of Geophysical Research, 2012, 117, .	3.3	60
44	LEND neutron data processing for the mapping of the Moon. Journal of Geophysical Research, 2012, 117,	3.3	18
45	Global maps of lunar neutron fluxes from the LEND instrument. Journal of Geophysical Research, 2012, 117, .	3.3	35
46	Dynamic Albedo of Neutrons (DAN) Experiment Onboard NASA's Mars Science Laboratory. , 2012, , 559-582.		1
47	Lunar Exploration Neutron Detector for the NASA Lunar Reconnaissance Orbiter. Space Science Reviews, 2010, 150, 183-207.	8.1	92
48	The Mercury Gamma and Neutron Spectrometer (MGNS) on board the Planetary Orbiter of the BepiColombo mission. Planetary and Space Science, 2010, 58, 116-124.	1.7	54
49	The first stage of the "BTN-Neutron―space experiment onboard the Russian segment of the International Space Station. Cosmic Research, 2010, 48, 285-299.	0.6	14
50	Hydrogen Mapping of the Lunar South Pole Using the LRO Neutron Detector Experiment LEND. Science, 2010, 330, 483-486.	12.6	265
51	Neutron components of radiation environment in the near-Earth and near-Mars space. Planetary and Space Science, 2009, 57, 1993-1995.	1.7	6
52	Lunar Exploration Neutron Detector for the NASA Lunar Reconnaissance Orbiter. , 2009, , 183-207.		0
53	The Dynamic Albedo of Neutrons (DAN) Experiment for NASA's 2009 Mars Science Laboratory. Astrobiology, 2008, 8, 605-612.	3.0	75
54	Experiment LEND of the NASA Lunar Reconnaissance Orbiter for High-Resolution Mapping of Neutron Emission of the Moon. Astrobiology, 2008, 8, 793-804.	3.0	36