Jozef Masarik

List of Publications by Year
in descending order

72 papers	3,378 citations	126858 33 h-index	138417 58 g-index
72 all docs	72 docs citations	72 times ranked	2813 citing authors

#	Article	IF	Citations
1	Terrestrial cosmogenic-nuclide production systematics calculated from numerical simulations. Earth and Planetary Science Letters, 1995, 136, 381-395.	1.8	248
2	An updated simulation of particle fluxes and cosmogenic nuclide production in the Earth's atmosphere. Journal of Geophysical Research, 2009, 114, .	3.3	187
3	Cosmogenic nuclides in stony meteorites revisited. Meteoritics and Planetary Science, 2009, 44, 1061-1086.	0.7	176
4	Presence of the Solar de Vries Cycle (â^¼205 years) during the Last Ice Age. Geophysical Research Letters, 2001, 28, 303-306.	1.5	165
5	Hfâ€"W evidence for rapid differentiation of iron meteorite parent bodies. Earth and Planetary Science Letters, 2006, 241, 530-542.	1.8	161
6	Effects of bulk composition on nuclide production processes in meteorites. Geochimica Et Cosmochimica Acta, 1994, 58, 5307-5317.	1.6	151
7	Chlorine-36 evidence for the Mono Lake event in the Summit GRIP ice core. Earth and Planetary Science Letters, 2000, 181, 1-6.	1.8	147
8	10Be and 26Al production rates deduced from an instantaneous event within the dendro-calibration curve, the landslide of KÃ¶fels, Ã–tz Valley, Austria. Earth and Planetary Science Letters, 1998, 161, 231-241.	1.8	143
9	Geomagnetic Modulation of the 36Cl Flux in the GRIP Ice Core, Greenland. Science, 1998, 279, 1330-1332.	6.0	124
10	Rapid accretion and differentiation of iron meteorite parent bodies inferred from 182Hfâ€"182W chronometry and thermal modeling. Earth and Planetary Science Letters, 2008, 273, 94-104.	1.8	115
11	Reconstruction of the geomagnetic field between 20 and 60 kyr BP from cosmogenic radionuclides in the GRIP ice core. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 597-604.	0.6	111
12	Correction of in situ cosmogenic nuclide production rates for geomagnetic field intensity variations during the past 800,000 years. Geochimica Et Cosmochimica Acta, 2001, 65, 2995-3003.	1.6	109
13	Gamma ray production and transport in Mars. Journal of Geophysical Research, 1996, 101, 18891-18912.	3.3	86
14	Shock Melting of the Canyon Diablo Impactor: Constraints from Nickel-59 Contents and Numerical Modeling. Science, 1999, 285, 85-88.	6.0	77
15	Production rates of cosmogenic nuclides in boulders. Earth and Planetary Science Letters, 2003, 216, 201-208.	1.8	76
16	Contribution of neutron-capture reactions to observed tungsten isotopic ratios. Earth and Planetary Science Letters, 1997, 152, 181-185.	1.8	59
17	Elemental composition from gammaâ€ray spectroscopy of the NEARâ€Shoemaker landing site on 433 Eros. Meteoritics and Planetary Science, 2001, 36, 1639-1660.	0.7	58
18	14C depth profiles in Apollo 15 and 17 cores and lunar rock 68815. Geochimica Et Cosmochimica Acta, 1998, 62, 3025-3036.	1.6	56

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19	Cosmicâ€ray exposure history of two Frontier Mountain Hâ€chondrite showers from spallation and neutronâ€capture products. Meteoritics and Planetary Science, 2001, 36, 301-317.	0.7	56
20	New model calculations for the production rates of cosmogenic nuclides in iron meteorites. Meteoritics and Planetary Science, 2009, 44, 485-503.	0.7	50
21	Some results relevant to the discussion of a possible link between cosmic rays and the Earth's climate. Journal of Geophysical Research, 2001, 106, 3381-3387.	3.3	48
22	Solar cosmic ray records in lunar rock 64455. Geochimica Et Cosmochimica Acta, 2009, 73, 2163-2176.	1.6	47
23	Snow shielding factors for cosmogenic nuclide dating inferred from long-term neutron detector monitoring. Quaternary Geochronology, 2014, 24, 16-26.	0.6	47
24	Reconstruction of the paleoaccumulation rate of central Greenland during the last 75 kyr using the cosmogenic radionuclides 36Cl and 10Be and geomagnetic field intensity data. Earth and Planetary Science Letters, 2001, 193, 515-521.	1.8	46
25	Noble gases and cosmogenic radionuclides in the Gold Basin L4 chondrite shower: Thermal history, exposure history, and preâ€atmospheric size. Meteoritics and Planetary Science, 2003, 38, 157-173.	0.7	45
26	Thermal neutron capture effects in radioactive and stable nuclide systems. Meteoritics and Planetary Science, 2013, 48, 665-685.	0.7	43
27	Investigation of7Be in the Bratislava atmosphere. Journal of Radioanalytical and Nuclear Chemistry, 1996, 207, 345-356.	0.7	42
28	Terrestrial manganese-53 â€" A new monitor of Earth surface processes. Earth and Planetary Science Letters, 2006, 251, 334-345.	1.8	41
29	Exposure history of the Torino meteorite. Meteoritics and Planetary Science, 1996, 31, 265-272.	0.7	39
30	Production rates of cosmogenic heliumâ€3, neonâ€21, and neonâ€22 in ordinary chondrites and the lunar surface. Meteoritics and Planetary Science, 2001, 36, 643-650.	0.7	39
31	Noble gases in 18 Martian meteorites and angrite Northwest Africa 7812â€"Exposure ages, trapped gases, and a reâ€evaluation of the evidence for solar cosmic rayâ€produced neon in shergottites and other achondrites. Meteoritics and Planetary Science, 2016, 51, 407-428.	0.7	36
32	Numerical simulation of in situ production of cosmogenic nuclides: Effects of irradiation geometry. Nuclear Instruments & Methods in Physics Research B, 2000, 172, 786-789.	0.6	35
33	Depth profile of41Ca in an Apollo 15 drill core and the low-energy neutron flux in the Moon. Earth and Planetary Science Letters, 1997, 148, 545-552.	1.8	34
34	Neutron Capture Isotopes in the Martian Regolith and Implications for Martian Atmospheric Noble Gases. Icarus, 2002, 156, 352-372.	1.1	28
35	Development of the Accelerator Mass Spectrometry technology at the Comenius University in Bratislava. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 87-94.	0.6	28
36	A carbonâ€14 depth profile in the L5 chondrite Knyahinya. Meteoritics, 1994, 29, 649-651.	1.5	27

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37	Noble gases in Grant and Carbo and the influence of Sâ€•and Pâ€rich mineral inclusions on the ⁴¹Kâ€⁴⁰K dating system. Meteoritics and Planetary Science, 2008, 43, 685-699.	0.7	27
38	The Monahans chondrite and halite: Argonâ€39/argonâ€40 age, solar gases, cosmicâ€ray exposure ages, and parent body regolith neutron flux and thickness. Meteoritics and Planetary Science, 2001, 36, 107-122.	0.7	26
39	Cosmogenic radionuclides in L5 and LL5 chondrites from Queen Alexandra Range, Antarctica: Identification of a large L/LL5 chondrite shower with a preatmospheric mass of approximately 50,000 kg. Meteoritics and Planetary Science, 2011, 46, 177-196.	0.7	26
40	Natural Neutron Fluence Rate and the Equivalent Dose in Localities with Different Elevation and Latitude. Radiation Protection Dosimetry, 1996, 67, 187-192.	0.4	24
41	Monte Carlo simulation of GCR neutron capture production of cosmogenic nuclides in stony meteorites and lunar surface. Meteoritics and Planetary Science, 2006, 41, 375-389.	0.7	24
42	Planetary gamma-ray spectroscopy of the surface of Mercury. Planetary and Space Science, 1997, 45, 39-48.	0.9	22
43	Resuspension processes controll variations of 137Cs activity concentrations in the ground-level air. Journal of Radioanalytical and Nuclear Chemistry, 2012, 293, 595-599.	0.7	22
44	Cosmogenic nuclides in the KoÅ¡ice meteorite: Experimental investigations and Monte Carlo simulations. Meteoritics and Planetary Science, 2015, 50, 880-892.	0.7	22
45	Cosmogenic radionuclides and mineralogical properties of the Chelyabinsk (LL5) meteorite: What do we learn about the meteoroid?. Meteoritics and Planetary Science, 2015, 50, 273-286.	0.7	20
46	A new IBA-AMS laboratory at the Comenius University in Bratislava (Slovakia). Nuclear Instruments & Methods in Physics Research B, 2015, 342, 321-326.	0.6	20
47	Numerical simulations of in situ production of terrestrial cosmogenic nuclides. Nuclear Instruments & Methods in Physics Research B, 2007, 259, 642-645.	0.6	19
48	Distributions of 137Cs and 210Pb in moss collected from Belarus and Slovakia. Journal of Environmental Radioactivity, 2013, 117, 19-24.	0.9	16
49	Exposure history of the Peekskill (H6) meteorite. Meteoritics and Planetary Science, 1997, 32, 25-30.	0.7	15
50	Campo del Cielo iron meteorite: Sample shielding and meteoroid's preatmospheric size. Meteoritics and Planetary Science, 2002, 37, 295-300.	0.7	15
51	Cosmicâ€ray exposure history of the Norton County enstatite achondrite. Meteoritics and Planetary Science, 2011, 46, 284-310.	0.7	15
52	Calibration of a Li-glass detector for neutron energies above 50 keV by the 1H(t,n) 3He reaction. Nuclear Instruments & Methods in Physics Research B, 1994, 94, 319-324.	0.6	14
53	Exposure age, terrestrial age and preâ€atmospheric radius of the Chinguetti mesosiderite: Not part of a much larger mass. Meteoritics and Planetary Science, 2001, 36, 939-946.	0.7	10
54	Cosmogenic 53Mn in the main fragment of the Norton County aubrite. Geochimica Et Cosmochimica Acta, 1995, 59, 825-830.	1.6	9

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55	Recent results from the AMS/IBA laboratory at the Comenius University in Bratislava: preparation of targets and optimization of ion sources. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 2101-2108.	0.7	9
56	Physical properties and biological effects of ceramic materials emitting infrared radiation for pain, muscular activity, and musculoskeletal conditions. Photodermatology Photoimmunology and Photomedicine, 2023, 39, 3-15.	0.7	8
57	Model for calculation of production rates of cosmogenic nuclides in extraterrestrial bodies. Journal of Physics G: Nuclear and Particle Physics, 1991, 17, S493-S504.	1.4	7
58	Chapter 1 Origin and Distribution of Radionuclides in the Continental Environment. Radioactivity in the Environment, 2009, 16, 1-25.	0.2	7
59	Production of noble gases near the surface of Europa and the prospects for in situ chronology. Icarus, 2005, 174, 205-214.	1.1	4
60	The shape of dilepton spectra in heavy ion collisions as a signature of quark-gluon plasma. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1993, 59, 295-302.	1.5	3
61	Resonance decays, correlations and intermittency in hadronic collisions. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1997, 75, 95-106.	1.5	3
62	The complex exposure histories of the Pitts and Horse Creek iron meteorites: Implications for meteorite delivery models. Meteoritics and Planetary Science, 2008, 43, 1321-1332.	0.7	2
63	Monte-Carlo calculation of production rates of cosmogenic radionuclides in a HPGe detector operating in the Modane underground laboratory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 978, 164355.	0.7	2
64	Study of the possibility of using radon potential maps for identification of areas with high indoor radon concentration. Journal of Radioanalytical and Nuclear Chemistry, 2021, 328, 651-657.	0.7	2
65	TPC for investigation of double beta decaying nuclei in solid samples. Journal of Physics G: Nuclear and Particle Physics, 1991, 17, S173-S179.	1.4	1
66	Chapter 2 Radionuclides as Tracers and Timers of Processes in the Continental Environment â€“ Basic Concepts and Methodologies. Radioactivity in the Environment, 2009, 16, 27-50.	0.2	1
67	The Lippmannâ€“Schwinger equation in electronâ€“molecule scattering theory and the many-body Brillouinâ€“Wigner expansion. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 205201.	0.6	1
68	Effects of meteoroid shape on cosmogenic nuclide production processes. Meteoritics and Planetary Science, 2015, 50, 318-325.	0.7	1
69	Effects of solar activity on production rates of shortâ€lived cosmogenic radionuclides. Meteoritics and Planetary Science, 2020, 55, 1048-1056.	0.7	1
70	Dimuon signature of the presence of high density matter in sulphur-tungsten ion collisions. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1994, 62, 499-502.	1.5	0
71	Theoretical study of the HeN2+2dication. Molecular Physics, 2013, 111, 3801-3807.	0.8	0
72	RESULTS OF LONG-TERM RADON MONITORING IN THE TYPICAL SLOVAK FAMILY HOUSEâ€"A CASE STUDY. Radiation Protection Dosimetry, 2020, 191, 223-227.	0.4	0