Paolo Prati

List of Publications by Citations

194 papers	6,349 citations	43 h-index	71 g-index
218 ext. papers	7,157 ext. citations	3.8 avg, IF	4.71 L-index

#	Paper	IF	Citations
194	Solar fusion cross sections. II. The pp chain and CNO cycles. *Reviews of Modern Physics*, **2011**, 83, 195-245	40.5	461
193	Astrophysical S-factor of 14N(p,)15O. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2004**, 591, 61-68	4.2	259
192	Characterization of particulate matter sources in an urban environment. *Science of the Total Environment*, **2008**, 401, 81-9	10.2	183
191	S-factor of 14N(p,)15O at astrophysical energies?. *European Physical Journal A*, **2005**, 25, 455-466	2.5	177
190	First Measurement of the 3He(3He,2p)4He Cross Section down to the Lower Edge of the Solar Gamow Peak. *Physical Review Letters*, **1999**, 82, 5205-5208	7.4	155
189	The LUNA II accelerator. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2003**, 507, 609-616	1.2	129
188	First measurement of the d(p,)3He cross section down to the solar Gamow peak. *Nuclear Physics A*, **2002**, 706, 203-216	1.3	127
187	Activation measurement of the 3He(alpha,gamma)7Be cross section at low energy. *Physical Review Letters*, **2006**, 97, 122502	7.4	117
186	Spatial and seasonal variability of carbonaceous aerosol across Italy. *Atmospheric Environment*, **2014**, 99, 587-598	5.3	112
185	The bottleneck of CNO burning and the age of Globular Clusters. *Astronomy and Astrophysics*, **2004**, 420, 625-629	5.1	109
184	An integrated PM2.5 source apportionment study: Positive Matrix Factorisation vs. the chemical transport model CAMx. *Atmospheric Environment*, **2014**, 94, 274-286	5.3	101
183	Astrophysical S factor of the He3(,)Be7 reaction measured at low energy via detection of prompt and delayed rays. *Physical Review C*, **2007**, 75,	2.7	99
182	PM2.5 chemical composition in five European Mediterranean cities: A 1-year study. *Atmospheric Research*, **2015**, 155, 102-117	5.4	95
181	Characterization of atmospheric aerosols at Monte Cimone, Italy, during summer 2004: Source apportionment and transport mechanisms. *Journal of Geophysical Research*, **2006**, 111,		95
180	First measurement of the 14N(p,)15O cross section down to 70 keV. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2006**, 634, 483-487	4.2	95
179	Cross section of 3He(3He,2p)4He measured at solar energies. *Physical Review C*, **1998**, 57, 2700-2710	2.7	91
178	Enhanced electron screening in d (d, p)t for deuterated Ta*. *European Physical Journal A*, **2002**, 13, 377-382	2.5	89

177	Enhanced electron screening in d(d,p)t for deuterated metals. *European Physical Journal A*, **2004**, 19, 283-287	2.5	82
176	Laboratory for Underground Nuclear Astrophysics (LUNA). *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1994**, 350, 327-337	1.2	81
175	Hourly elemental composition and sources identification of fine and coarse PM10 particulate matter in four Italian towns. *Journal of Aerosol Science*, **2003**, 34, 243-259	4.3	80
174	A mass closure and PMF source apportionment study on the sub-micron sized aerosol fraction at urban sites in Italy. *Atmospheric Environment*, **2008**, 42, 2240-2253	5.3	79
173	Elemental characterization of PM10, PM2.5 and PM1 in the town of Genoa (Italy). *Chemosphere*, **2006**, 62, 226-32	8.4	78
172	First direct measurement of the 2H(α,γ)6Li cross section at big bang energies and the primordial lithium problem. *Physical Review Letters*, **2014**, 113, 042501	7.4	76
171	He3(α,γ)Be7 cross section at low energies. *Physical Review C*, **2007**, 75,	2.7	75
170	Multi-wavelength optical determination of black and brown carbon in atmospheric aerosols. *Atmospheric Environment*, **2015**, 108, 1-12	5.3	72
169	Electron screening effect in the reactions 3He(d, p)4He and d(3He, p)4He. *Nuclear Physics A*, **2001**, 690, 790-800	1.3	70
168	Impact of a European directive on ship emissions on air quality in Mediterranean harbours. *Atmospheric Environment*, **2012**, 61, 661-669	5.3	69
167	Electron screening in d(d,p)t for deuterated metals and the periodic table. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2002**, 547, 193-199	4.2	69
166	Precision study of ground state capture in the 14N(p,γ)15O reaction. *Physical Review C*, **2008**, 78,	2.7	67
165	Saharan dust impact in central Italy: An overview on three years elemental data records. *Atmospheric Environment*, **2012**, 60, 444-452	5.3	65
164	Absolute cross section of 7Be(p,γ)8B. *Nuclear Physics A*, **2001**, 696, 219-230	1.3	59
163	The He3(α,γ)Be7 S-factor at solar energies: The prompt γ experiment at LUNA. *Nuclear Physics A*, **2008**, 814, 144-158	1.3	58
162	Feasibility of low-energy radiative-capture experiments at the LUNA underground accelerator facility. *European Physical Journal A*, **2005**, 24, 313-319	2.5	55
161	A new methodology to assess the performance and uncertainty of source apportionment models II: The results of two European intercomparison exercises. *Atmospheric Environment*, **2015**, 123, 240-250	5.3	54
160	Low energy measurement of the 14N(p, γ)15O total cross section at the LUNA underground facility. *Nuclear Physics A*, **2006**, 779, 297-317	1.3	52

159	A new setup for the underground study of capture reactions. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2002**, 489, 160-169	1.2	52
158	The 25Mg(p,)26Al reaction at low astrophysical energies. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2012**, 707, 60-65	4.2	51
157	Ultra-sensitive in-beam (gamma) -ray spectroscopy for nuclear astrophysics at LUNA. *European Physical Journal A*, **2009**, 39, 179-186	2.5	50
156	Source apportionment near a steel plant in Genoa (Italy) by continuous aerosol sampling and PIXE analysis. *Atmospheric Environment*, **2000**, 34, 3149-3157	5.3	47
155	PM10 source apportionment applying PMF and chemical tracer analysis to ship-borne measurements in the Western Mediterranean. *Atmospheric Environment*, **2016**, 125, 140-151	5.3	47
154	Origin of meteoritic stardust unveiled by a revised proton-capture rate of 17O. *Nature Astronomy*, **2017**, 1,	12.1	46
153	Production of particulate brown carbon during atmospheric aging of residential wood-burning emissions. *Atmospheric Chemistry and Physics*, **2018**, 18, 17843-17861	6.8	46
152	Characterization of airborne particulate matter in an industrial district near Florence by PIXE and PESA. *X-Ray Spectrometry*, **2005**, 34, 323-329	0.9	45
151	Size-resolved comprehensive characterization of airborne particulate matter. *Atmospheric Environment*, **2013**, 67, 14-26	5.3	43
150	IMPACT OF A REVISED25Mg(p,)26Al REACTION RATE ON THE OPERATION OF THE Mg-Al CYCLE. *Astrophysical Journal*, **2013**, 763, 100	4.7	42
149	Three New Low-Energy Resonances in the ^{22}Ne(p,)^{23}Na Reaction. *Physical Review Letters*, **2015**, 115, 252501	7.4	42
148	Non-destructive characterization of Della Robbia sculptures at the Bargello museum in Florence by the combined use of PIXE and XRF portable systems. *Journal of Cultural Heritage*, **2004**, 5, 183-188	2.9	42
147	First direct measurement of the 17O(p,)18F reaction cross section at Gamow energies for classical novae. *Physical Review Letters*, **2012**, 109, 202501	7.4	41
146	4-hours resolution data to study PM10 in a "hot spot" area in Europe. *Environmental Monitoring and Assessment*, **2009**, 154, 283-300	3.1	40
145	Improved Direct Measurement of the 64.5 keV Resonance Strength in the ^{17}O(p,)^{14}N Reaction at LUNA. *Physical Review Letters*, **2016**, 117, 142502	7.4	40
144	New experimental study of low-energy (p,)resonances in magnesium isotopes. *Physical Review C*, **2010**, 82,	2.7	39
143	Underground study of the O17(p,)F18 reaction relevant for explosive hydrogen burning. *Physical Review C*, **2014**, 89,	2.7	38
142	Stopping power, electron screening and the astrophysical S(E) factor of d(3He,p)4He. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2000**, 482, 43-49	4.2	38

141	Electron screening in thed+3He fusion reaction. *Zeitschrift Fü Physik A*, **1994**, 350, 171-176		38
140	The baryon density of the Universe from an improved rate of deuterium burning. *Nature*, **2020**, 587, 210-213	50.4	38
139	Direct measurement of the15N(p,)16O total cross section at novae energies. *Journal of Physics G: Nuclear and Particle Physics*, **2009**, 36, 045202	2.9	37
138	Spectral- and size-resolved mass absorption efficiency of mineral dust aerosols in the shortwave spectrum: a simulation chamber study. *Atmospheric Chemistry and Physics*, **2017**, 17, 7175-7191	6.8	36
137	Improvements in PIXE analysis of hourly particulate matter samples. *Nuclear Instruments & Methods in Physics Research B*, **2015**, 363, 99-104	1.2	35
136	Comparison of different Aethalometer correction schemes and a reference multi-wavelength absorption technique for ambient aerosol data. *Atmospheric Measurement Techniques*, **2017**, 10, 2837-2850	4	35
135	A new study of the 22Ne(p,)23Na reaction deep underground: Feasibility, setup and first observation of the 186 keV resonance. *European Physical Journal A*, **2014**, 50, 1	2.5	35
134	Self-attenuation artifacts and correction factors of light element measurements by X-ray analysis: Implication for mineral dust composition studies. *Journal of Geophysical Research*, **2010**, 115,		35
133	Measurement of the 3He(3He,2p)4He cross section within the solar Gamow peak. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1996**, 389, 452-456	4.2	35
132	Cryoconite as a temporary sink for anthropogenic species stored in glaciers. *Scientific Reports*, **2017** , 7, 9623	4.9	33
131	Preparation and characterisation of isotopically enriched Ta2O5 targets for nuclear astrophysics studies. *European Physical Journal A*, **2012**, 48, 1	2.5	33
130	The N14(p,)O15 reaction studied with a composite germanium detector. *Physical Review C*, **2011**, 83,	2.7	33
129	PIXE and XRF analysis of particulate matter samples: an inter-laboratory comparison. *Nuclear Instruments & Methods in Physics Research B*, **2008**, 266, 2401-2404	1.2	32
128	A multi-wavelength optical set-up for the characterization of carbonaceous particulate matter. *Journal of Aerosol Science*, **2013**, 60, 34-46	4.3	31
127	High-resolution radon monitoring and hydrodynamics at Mount Vesuvius. *Geophysical Research Letters*, **2001**, 28, 4035-4038	4.9	31
126	Constraining the S factor of N15(p,)O16 at astrophysical energies. *Physical Review C*, **2010**, 82,	2.7	30
125	Resonance strengths in the 17,18O(p,)14,15N reactions and background suppression underground. *European Physical Journal A*, **2015**, 51, 1	2.5	29
124	PIXE analysis of VIXVI century glasses from the archaeological site of San Martino di Ovaro (Italy). *Journal of Cultural Heritage*, **2007**, 8, 307-314	2.9	29

123	Aerosol study in the town of Genova with a PIXE analysis. *Nuclear Instruments & Methods in Physics Research B*, **1996**, 113, 359-362	1.2	29
122	Source apportionment of PM10 in the Western Mediterranean based on observations from a cruise ship. *Atmospheric Environment*, **2014**, 98, 510-518	5.3	28
121	The EXPLODET project: advanced nuclear techniques for humanitarian demining. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1999**, 422, 918-921	1.2	28
120	22Ne and23Na ejecta from intermediate-mass stars: the impact of the new LUNA rate for22Ne(p,)23Na. *Monthly Notices of the Royal Astronomical Society*, **2017**, 465, 4817-4837	4.3	27
119	PIXE and PIXE analysis of glazes from terracotta sculptures of the della Robbia workshop. *Nuclear Instruments & Methods in Physics Research B*, **2002**, 189, 358-363	1.2	27
118	A high-efficiency gas target setup for underground experiments, and redetermination of the branching ratio of the 189.5 keV 22Ne(p,(gamma))23Na resonance. *European Physical Journal A*, **2018**, 54, 1	2.5	26
117	Direct measurement of low-energy Ne22(p,)Na23 resonances. *Physical Review C*, **2016**, 94,	2.7	26
116	Revision of the15N(p,)16O reaction rate and oxygen abundance in H-burning zones. *Astronomy and Astrophysics*, **2011**, 533, A66	5.1	26
115	An actively vetoed Clover (gamma) -detector for nuclear astrophysics at LUNA. *European Physical Journal A*, **2010**, 44, 513-519	2.5	26
114	A new methodological approach: The combined use of two-stage streaker samplers and optical particle counters for the characterization of airborne particulate matter. *Atmospheric Environment*, **2007**, 41, 5525-5535	5.3	26
113	Size distribution and optical properties of African mineral dust after intercontinental transport. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 7117-7138	4.4	25
112	Neutron-induced background by an beam incident on a deuterium gas target and its implications for the study of the 2H(,6Li reaction at LUNA. *European Physical Journal A*, **2013**, 49, 1	2.5	25
111	Elemental composition and source apportionment of particulate matter near a steel plant in Genoa (Italy). *Nuclear Instruments & Methods in Physics Research B*, **2006**, 249, 548-551	1.2	25
110	Carbonate measurements in PM10 near the marble quarries of Carrara (Italy) by infrared spectroscopy (FT-IR) and source apportionment by positive matrix factorization (PMF). *Atmospheric Environment*, **2011**, 45, 6481-6487	5.3	24
109	Big Bang 6 Li nucleosynthesis studied deep underground (LUNA collaboration). *Astroparticle Physics* , **2017**, 89, 57-65	2.4	23
108	Evaluation of receptor and chemical transport models for PM10 source apportionment. *Atmospheric Environment: X*, **2020**, 5, 100053	2.8	23
107	Loss of 8Li recoil nuclei in 7Li(d,p)8Li and implications on the 7Be(p,)8B cross section. *European Physical Journal A*, **1998**, 3, 1-3	2.5	21
106	One-year study of the elemental composition and source apportionment of PM10 aerosols in Florence, Italy. *Journal of the Air and Waste Management Association*, **2004**, 54, 1372-82	2.4	21

105	Study of beam heating effect in a gas target through Rutherford scattering. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2006**, 569, 727-731	1.2	20
104	Study of the pigments in medieval polychrome architectural elements of "Veneto-Byzantine" style. *Journal of Cultural Heritage*, **2002**, 3, 289-297	2.9	20
103	Direct Capture Cross Section and the E_{p}=71 and 105 keV Resonances in the ^{22}Ne(p,γ)^{23}Na Reaction. *Physical Review Letters*, **2018**, 121, 172701	7.4	20
102	The impact of the revised17O(p,γ)14N reaction rate on17O stellar abundances and yields. *Astronomy and Astrophysics*, **2017**, 598, A128	5.1	19
101	Improved background suppression for radiative capture reactions at LUNA with HPGe and BGO detectors. *Journal of Physics G: Nuclear and Particle Physics*, **2018**, 45, 025203	2.9	19
100	Characterisation of early medieval frescoes by "PIXE, SEM and Raman spectroscopy. *Nuclear Instruments & Methods in Physics Research B*, **2004**, 219-220, 20-25	1.2	19
99	A Monte Carlo code for nuclear astrophysics experiments. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1995**, 360, 607-615	1.2	19
98	Improved astrophysical rate for the 18O(p,γ)15N reaction by underground measurements. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2019**, 790, 237-242	4.2	18
97	Brown carbon and thermal"optical analysis: A correction based on optical multi-wavelength apportionment of atmospheric aerosols. *Atmospheric Environment*, **2016**, 125, 119-125	5.3	18
96	Estimation of the contributions of the sources driving PM levels in a Central Mediterranean coastal town. *Chemosphere*, **2018**, 211, 465-481	8.4	18
95	Combined PIXE and XPS analysis on republican and imperial Roman coins. *Nuclear Instruments & Methods in Physics Research B*, **2000**, 161-163, 743-747	1.2	18
94	Direct measurement of nuclear cross-section of astrophysical interest: Results and perspectives. *International Journal of Modern Physics A*, **2018**, 33, 1843010	1.2	17
93	An alternative way to determine the size distribution of airborne particulate matter. *Atmospheric Environment*, **2010**, 44, 3304-3313	5.3	17
92	Elemental composition of urban aerosol collected in Florence, Italy. *Nuclear Instruments & Methods in Physics Research B*, **2000**, 161-163, 819-824	1.2	16
91	Energy loss of deuterons in 3He gas: a threshold effect. *European Physical Journal A*, **2000**, 8, 443-446	2.5	16
90	ED-XRF set-up for size-segregated aerosol samples analysis. *X-Ray Spectrometry*, **2011**, 40, 79-87	0.9	15
89	Stopping power of low-energy deuterons in 3He gas. *European Physical Journal A*, **2001**, 10, 487-491	2.5	13
88	Hourly measurement of particulate concentrations with streaker samplers and optical methods. *Nuclear Instruments & Methods in Physics Research B*, **1999**, 150, 370-374	1.2	13

87	Cryoconite: an efficient accumulator of radioactive fallout in glacial environments. *Cryosphere*, **2020**, 14, 657-672	5.5	13
86	Exploiting multi-wavelength aerosol absorption coefficients in a multi-time resolution source apportionment study to retrieve source-dependent absorption parameters. *Atmospheric Chemistry and Physics*, **2019**, 19, 11235-11252	6.8	12
85	Atmospheric aerosol characterisation by Ion Beam Analysis techniques: recent improvements at the Van de Graaff laboratory in Florence. *Nuclear Instruments & Methods in Physics Research B*, **2004**, 219-220, 166-170	1.2	12
84	Aerosol characterisation in Italian towns by IBA techniques. *Nuclear Instruments & Methods in Physics Research B*, **2002**, 190, 471-476	1.2	12
83	Setup commissioning for an improved measurement of the D(p,(gamma))(^3)He cross section at Big Bang Nucleosynthesis energies. *European Physical Journal A*, **2020**, 56, 1	2.5	12
82	Cross section of the reaction 18O(p,)19F at astrophysical energies: The 90 keV resonance and the direct capture component. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2019**, 797, 134900	4.2	11
81	Direct measurements of low-energy resonance strengths of the 23Na(p,)24Mg reaction for astrophysics. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2019**, 795, 122-128	4.2	11
80	Five-year clinical outcome and patency rate of device-dependent venous grafts after clampless OPCAB with PAS-port automated proximal anastomosis: the PAPA Study. *Journal of Cardiac Surgery* , **2014**, 29, 325-32	1.3	11
79	Mini-extracorporeal circulation minimizes coagulation abnormalities and ameliorates pulmonary outcome in coronary artery bypass grafting surgery. *Perfusion (United Kingdom)*, **2013**, 28, 298-305	1.9	11
78	PIXE and ToF-SIMS analysis of streaker samplers filters. *Nuclear Instruments & Methods in Physics Research B*, **2004**, 222, 261-269	1.2	11
77	Characterization of aerosols above the Northern Adriatic Sea: Case studies of offshore and onshore wind conditions. *Atmospheric Environment*, **2016**, 132, 153-162	5.3	10
76	External-beam PIGE for fluorine determination in atmospheric aerosol. *Nuclear Instruments & Methods in Physics Research B*, **1998**, 136-138, 975-980	1.2	10
75	Static secondary ion mass spectrometry as a new analytical tool for measuring atmospheric particles on insulating substrates. *Atmospheric Environment*, **2002**, 36, 899-909	5.3	10
74	Provenance study of Ligurian pottery by PIXE analysis. *Nuclear Instruments & Methods in Physics Research B*, **1996**, 117, 311-319	1.2	10
73	Determination of Aethalometer multiple-scattering enhancement parameters and impact on source apportionment during the winter 2017/18 EMEP/ACTRIS/COLOSSAL campaign in Milan. *Atmospheric Measurement Techniques*, **2021**, 14, 2919-2940	4	10
72	Characterization of the LUNA neutron detector array for the measurement of the 13C(,n)16O reaction. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2021**, 994, 165081	1.2	10
71	A testing technique of streaker aerosol samplers via PIXE analysis. *Nuclear Instruments & Methods in Physics Research B*, **1998**, 136-138, 986-989	1.2	9
70	Modelling temperature distributions and radon emission at Stromboli Volcano using a non-extensive statistical approach. *Physica A: Statistical Mechanics and Its Applications*, **2004**, 340, 402-409	3.3	9

69	Study of the aerosol composition in the town of La Spezia with continuous sampling and PIXE analysis. *Nuclear Instruments & Methods in Physics Research B*, **2000**, 161-163, 786-791	1.2	9
68	Effect of beam energy straggling on resonant yield in thin gas targets: The cases 22 Ne(p,) 23 Na and 14 N(p,) 15 O. *Europhysics Letters*, **2018**, 122, 52001	1.6	8
67	Environmental radon monitoring: comparing drawbacks and performances of charcoal canisters, alpha-track and E-PERM detectors. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2004**, 518, 452-455	1.2	8
66	Study of particulate emissions near a steel plant in Genova by continuous sampling and PIXE hourly analysis. *Nuclear Instruments & Methods in Physics Research B*, **1999**, 150, 428-432	1.2	8
65	Elemental composition of size-fractionated urban aerosol collected in Florence, Italy; preliminary results. *Nuclear Instruments & Methods in Physics Research B*, **1999**, 150, 450-456	1.2	8
64	Direct Measurement of the ^{13}C( )^{16}O Cross Section into the s-Process Gamow Peak. *Physical Review Letters*, **2021**, 127, 152701	7.4	8
63	Helium burning and neutron sources in the stars. *European Physical Journal A*, **2016**, 52, 1	2.5	8
62	A new approach to monitor (^{13}hbox {C})-targets degradation in situ for (^{13}hbox {C}(alpha ,hbox {n})^{16}hbox {O}) cross-section measurements at LUNA. *European Physical Journal A*, **2020**, 56, 1	2.5	7
61	Measurement of25Mg(p,)26Al resonance strengths via gamma spectrometry. *Journal of Physics G: Nuclear and Particle Physics*, **2008**, 35, 014013	2.9	7
60	Aerosol advection and sea salt events in Genoa, Italy, during the second half of 2005. *Science of the Total Environment*, **2007**, 377, 396-406	10.2	7
59	Source Apportionment in the Town of La Spezia (Italy) by Continuous Aerosol Sampling and PIXE Analysis. *Water, Air and Soil Pollution*, **2002**, 2, 247-260		7
58	Results of an interlaboratory comparison of analytical methods for quantification of anhydrosugars and biosugars in atmospheric aerosol. *Chemosphere*, **2017**, 184, 269-277	8.4	6
57	Use of an atmospheric simulation chamber for bioaerosol investigation: a feasibility study. *Aerobiologia*, **2015**, 31, 445-455	2.4	6
56	Artificial and natural radionuclides in cryoconite as tracers of supraglacial dynamics: Insights from the Morteratsch glacier (Swiss Alps). *Catena*, **2020**, 191, 104577	5.8	6
55	Tailored coefficients in the algorithm to assess reconstructed light extinction at urban sites: A comparison with the IMPROVE revised approach. *Atmospheric Environment*, **2018**, 172, 168-176	5.3	6
54	Two-wavelength thermal-optical determination of light-absorbing carbon in atmospheric aerosols. *Atmospheric Measurement Techniques*, **2019**, 12, 3173-3182	4	6
53	Recent results of the 14N(p,)15O measurement at LUNA. *Nuclear Physics A*, **2005**, 758, 383-386	1.3	6
52	A beta spectrometer for monitoring environmental matrices. *Health Physics*, **1992**, 62, 155-61	2.3	6

51	PMF5.0 vs. CMB8.2: An inter-comparison study based on the new European SPECIEUROPE database. *Atmospheric Research*, **2018**, 201, 181-188	5.4	6
50	ChAMBRe: a new atmospheric simulation chamber for aerosol modelling and bio-aerosol research. *Atmospheric Measurement Techniques*, **2018**, 11, 5885-5900	4	6
49	Publisher's Note: Astrophysical S factor of the He3(Be7 reaction measured at low energy via detection of prompt and delayed rays [Phys. Rev. C 75, 065803 (2007)]. *Physical Review C*, **2007**, 75,	2.7	5
48	The D(3He,p)4He fusion reaction: electron screening effect and astrophysical S(E) factor at low energies. *Nuclear Physics A*, **2001**, 688, 514-517	1.3	5
47	Elemental Composition of Urban Aerosol Collected in Florence, Italy. *Environmental Monitoring and Assessment*, **2000**, 65, 165-173	3.1	5
46	A personal dosimeter prototype for static magnetic fields. *Health Physics*, **1993**, 65, 172-7	2.3	5
45	Characterization of carbonaceous aerosols over the Northern Adriatic Sea in the JERICO-NEXT project framework. *Atmospheric Environment*, **2020**, 228, 117449	5.3	4
44	Coarse particulate matter apportionment around a steel smelter plant. *Journal of the Air and Waste Management Association*, **2009**, 59, 514-9	2.4	4
43	PIXE measurements of particulate concentrations in atmosphere near a steel smelter in Genova (Italy). *Nuclear Instruments & Methods in Physics Research B*, **1998**, 139, 258-263	1.2	4
42	Characterization of ligurian pottery by PIXE analysis. *Nuclear Instruments & Methods in Physics Research B*, **1996**, 109-110, 681-685	1.2	4
41	Source-specific light absorption by carbonaceous components in the complex aerosol matrix from yearly filter-based measurements. *Atmospheric Chemistry and Physics*, **2021**, 21, 12809-12833	6.8	4
40	Low-energy resonances in the O18(p,19F reaction. *Physical Review C*, **2021**, 104,	2.7	4
39	PIXE analysis of pottery from the recovery of a renaissance wreck. *Nuclear Instruments & Methods in Physics Research B*, **1998**, 136-138, 893-896	1.2	3
38	Nuclear Astrophysics At LUNA: Status And Perspectives. *AIP Conference Proceedings*, **2008**,	0	3
37	Towards a high-precision measurement of the 3He(7Be cross section at LUNA. *European Physical Journal A*, **2006**, 27, 177-180	2.5	3
36	Recent results from the LUNA facility at Gran Sasso. *Journal of Physics G: Nuclear and Particle Physics*, **2005**, 31, S1537-S1540	2.9	3
35	The cross section of 3He(3He,2p)4He measured at solar energies. *Nuclear Physics, Section B, Proceedings Supplements*, **1999**, 70, 382-385		3
34	Possible detection of the 17 keV neutrino signal in electron capture. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1992**, 277, 190-193	4.2	3

33	An overview of optical and thermal methods for the characterization of carbonaceous aerosol. *Rivista Del Nuovo Cimento*, **2021**, 44, 145-192	3.5	3
32	Comparative characterization of the performance of bio-aerosol nebulizers in connection with atmospheric simulation chambers. *Atmospheric Measurement Techniques*, **2021**, 14, 4461-4470	4	3
31	Applicability of benchtop multi-wavelength polar photometers to off-line measurements of the Multi-Angle Absorption Photometer (MAAP) samples. *Journal of Aerosol Science*, **2021**, 152, 105701	4.3	3
30	Production of particulate brown carbon during atmospheric aging of wood-burning emissions **2018**,		3
29	Underground experimental study finds no evidence of low-energy resonance in the Li6(p,)Be7 reaction. *Physical Review C*, **2020**, 102,	2.7	2
28	Ground state capture in 14N(p,)15O studied above the 259 keV resonance at LUNA. *Journal of Physics G: Nuclear and Particle Physics*, **2008**, 35, 014019	2.9	2
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