

Alfonso Monaco

List of Publications by Year in descending order

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127
papers

4,605
citations

159525

30
h-index

102432

66
g-index

130
all docs

130
docs citations

130
times ranked

4331
citing authors

#	ARTICLE	IF	CITATIONS
1	PAMELA Measurements of Cosmic-Ray Proton and Helium Spectra. <i>Science</i> , 2011, 332, 69-72.	6.0	686
2	PAMELA Results on the Cosmic-Ray Antiproton Flux from 60 MeV to 180 GeV in Kinetic Energy. <i>Physical Review Letters</i> , 2010, 105, 121101.	2.9	444
3	Cosmic-Ray Electron Flux Measured by the PAMELA Experiment between 1 and 625 GeV. <i>Physical Review Letters</i> , 2011, 106, 201101.	2.9	281
4	Cosmic-Ray Positron Energy Spectrum Measured by PAMELA. <i>Physical Review Letters</i> , 2013, 111, 081102.	2.9	243
5	Equivalence of the Boson Peak in Glasses to the Transverse Acoustic van Hove Singularity in Crystals. <i>Physical Review Letters</i> , 2011, 106, 225501.	2.9	234
6	TIME DEPENDENCE OF THE PROTON FLUX MEASURED BY PAMELA DURING THE 2006 JULY-2009 DECEMBER SOLAR MINIMUM. <i>Astrophysical Journal</i> , 2013, 765, 91.	1.6	223
7	A statistical procedure for the identification of positrons in the PAMELA experiment. <i>Astroparticle Physics</i> , 2010, 34, 1-11.	1.9	168
8	The PAMELA Mission: Heralding a new era in precision cosmic ray physics. <i>Physics Reports</i> , 2014, 544, 323-370.	10.3	147
9	MEASUREMENT OF BORON AND CARBON FLUXES IN COSMIC RAYS WITH THE PAMELA EXPERIMENT. <i>Astrophysical Journal</i> , 2014, 791, 93.	1.6	127
10	Complex networks reveal early MRI markers of Parkinson's disease. <i>Medical Image Analysis</i> , 2018, 48, 12-24.	7.0	112
11	Measurement of the flux of primary cosmic ray antiprotons with energies of 60 MeV to 350 GeV in the PAMELA experiment. <i>JETP Letters</i> , 2013, 96, 621-627.	0.4	105
12	Deep learning reveals Alzheimer's disease onset in MCI subjects: Results from an international challenge. <i>Journal of Neuroscience Methods</i> , 2018, 302, 3-9.	1.3	104
13	Effect of Densification on the Density of Vibrational States of Glasses. <i>Physical Review Letters</i> , 2006, 97, 135501.	2.9	99
14	OBSERVATIONS OF THE 2006 DECEMBER 13 AND 14 SOLAR PARTICLE EVENTS IN THE 80 MeV $n ¹-3$ GeV $n ¹$ RANGE FROM SPACE WITH THE PAMELA DETECTOR. <i>Astrophysical Journal</i> , 2011, 742, 102.	1.6	83
15	TIME DEPENDENCE OF THE e^+ FLUX MEASURED BY PAMELA DURING THE 2006 JULY-2009 DECEMBER SOLAR MINIMUM. <i>Astrophysical Journal</i> , 2015, 810, 142.	1.6	60
16	DTI measurements for Alzheimer's classification. <i>Physics in Medicine and Biology</i> , 2017, 62, 2361-2375.	1.6	57
17	Time Dependence of the Electron and Positron Components of the Cosmic Radiation Measured by the PAMELA Experiment between July 2006 and December 2015. <i>Physical Review Letters</i> , 2016, 116, 241105.	2.9	54
18	Density of Vibrational States of a Hyperquenched Glass. <i>Physical Review Letters</i> , 2006, 96, 205502.	2.9	51

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19	BioMaS: a modular pipeline for Bioinformatic analysis of Metagenomic AmpliconS. BMC Bioinformatics, 2015, 16, 203.	1.2	49
20	MEASUREMENTS OF COSMIC-RAY HYDROGEN AND HELIUM ISOTOPES WITH THE PAMELA EXPERIMENT. Astrophysical Journal, 2016, 818, 68.	1.6	49
21	The PAMELA space experiment. Advances in Space Research, 2013, 51, 209-218.	1.2	45
22	Multiplex Networks for Early Diagnosis of Alzheimer's Disease. Frontiers in Aging Neuroscience, 2018, 10, 365.	1.7	43
23	Machine learning reveals that prolonged exposure to air pollution is associated with SARS-CoV-2 mortality and infectivity in Italy. Environmental Pollution, 2020, 267, 115471.	3.7	42
24	Deep Learning and Multiplex Networks for Accurate Modeling of Brain Age. Frontiers in Aging Neuroscience, 2019, 11, 115.	1.7	41
25	THE DISCOVERY OF GEOMAGNETICALLY TRAPPED COSMIC-RAY ANTIPROTONS. Astrophysical Journal Letters, 2011, 737, L29.	3.0	40
26	MEASUREMENT OF THE ISOTOPIC COMPOSITION OF HYDROGEN AND HELIUM NUCLEI IN COSMIC RAYS WITH THE PAMELA EXPERIMENT. Astrophysical Journal, 2013, 770, 2.	1.6	39
27	Predicting brain age with complex networks: From adolescence to adulthood. NeuroImage, 2021, 225, 117458.	2.1	39
28	Explainable Deep Learning for Personalized Age Prediction With Brain Morphology. Frontiers in Neuroscience, 2021, 15, 674055.	1.4	38
29	Measurements of cosmic-ray proton and helium spectra with the PAMELA calorimeter. Advances in Space Research, 2013, 51, 219-226.	1.2	36
30	The EUSO-Balloon pathfinder. Experimental Astronomy, 2015, 40, 281-299.	1.6	31
31	Alzheimer's disease diagnosis based on the Hippocampal Unified Multi-Atlas Network (HUMAN) algorithm. BioMedical Engineering OnLine, 2018, 17, 6.	1.3	28
32	TRAPPED PROTON FLUXES AT LOW EARTH ORBITS MEASURED BY THE PAMELA EXPERIMENT. Astrophysical Journal Letters, 2015, 799, L4.	3.0	27
33	PAMELA'S MEASUREMENTS OF MAGNETOSPHERIC EFFECTS ON HIGH-ENERGY SOLAR PARTICLES. Astrophysical Journal Letters, 2015, 801, L3.	3.0	27
34	Multi-Time-Scale Features for Accurate Respiratory Sound Classification. Applied Sciences (Switzerland), 2020, 10, 8606.	1.3	27
35	Modelling cognitive loads in schizophrenia by means of new functional dynamic indexes. NeuroImage, 2019, 195, 150-164.	2.1	24
36	A Roadmap towards Breast Cancer Therapies Supported by Explainable Artificial Intelligence. Applied Sciences (Switzerland), 2021, 11, 4881.	1.3	24

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37	Collective dynamics in molten potassium: An inelastic x-ray scattering study. <i>Journal of Chemical Physics</i> , 2004, 120, 8089-8094.	1.2	23
38	A novel approach to brain connectivity reveals early structural changes in Alzheimer's disease. <i>Physiological Measurement</i> , 2018, 39, 074005.	1.2	22
39	A complex network approach reveals a pivotal substructure of genes linked to schizophrenia. <i>PLoS ONE</i> , 2018, 13, e0190110.	1.1	22
40	PAMELA's measurements of geomagnetic cutoff variations during the 14 December 2006 storm. <i>Space Weather</i> , 2016, 14, 210-220.	1.3	21
41	Time Dependence of the Flux of Helium Nuclei in Cosmic Rays Measured by the PAMELA Experiment between 2006 July and 2009 December. <i>Astrophysical Journal</i> , 2020, 893, 145.	1.6	21
42	Reentrant albedo proton fluxes measured by the PAMELA experiment. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3728-3738.	0.8	20
43	Machine Learning and DWI Brain Communicability Networks for Alzheimer's Disease Detection. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 934.	1.3	20
44	Shannon entropy approach reveals relevant genes in Alzheimer's disease. <i>PLoS ONE</i> , 2019, 14, e0226190.	1.1	19
45	Force-field parameterization of the galactic cosmic ray spectrum: Validation for Forbush decreases. <i>Advances in Space Research</i> , 2015, 55, 2940-2945.	1.2	18
46	Machine Learning for Cloud Detection of Globally Distributed Sentinel-2 Images. <i>Remote Sensing</i> , 2020, 12, 2355.	1.8	18
47	Measurements of quasi-trapped electron and positron fluxes with PAMELA. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	17
48	Territorial bias in university rankings: a complex network approach. <i>Scientific Reports</i> , 2022, 12, 4995.	1.6	15
49	New Upper Limit on Strange Quark Matter Abundance in Cosmic Rays with the PAMELA Space Experiment. <i>Physical Review Letters</i> , 2015, 115, 111101.	2.9	14
50	Lithium and Beryllium Isotopes with the PAMELA Experiment. <i>Astrophysical Journal</i> , 2018, 862, 141.	1.6	14
51	Communicability Characterization of Structural DWI Subcortical Networks in Alzheimer's Disease. <i>Entropy</i> , 2019, 21, 475.	1.1	14
52	Testing of several distributed file-systems (HDFS, Ceph and GlusterFS) for supporting the HEP experiments analysis. <i>Journal of Physics: Conference Series</i> , 2014, 513, 042014.	0.3	13
53	Geomagnetically trapped, albedo and solar energetic particles: Trajectory analysis and flux reconstruction with PAMELA. <i>Advances in Space Research</i> , 2017, 60, 788-795.	1.2	13
54	Topological Measurements of DWI Tractography for Alzheimer's Disease Detection. <i>Computational and Mathematical Methods in Medicine</i> , 2017, 2017, 1-10.	0.7	13

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55	An equity-oriented rethink of global rankings with complex networks mapping development. Scientific Reports, 2020, 10, 18046.	1.6	13
56	The PERSON project: a serious brain-computer interface game for treatment in cognitive impairment. Health and Technology, 2019, 9, 123-133.	2.1	12
57	Extensive Evaluation of Morphological Statistical Harmonization for Brain Age Prediction. Brain Sciences, 2020, 10, 364.	1.1	12
58	Sustainable development goals: conceptualization, communication and achievement synergies in a complex network framework. Applied Network Science, 2022, 7, 14.	0.8	12
59	Association between Structural Connectivity and Generalized Cognitive Spectrum in Alzheimer's Disease. Brain Sciences, 2020, 10, 879.	1.1	11
60	The interaction between cannabis use and a CB1-related polygenic co-expression index modulates dorsolateral prefrontal activity during working memory processing. Brain Imaging and Behavior, 2021, 15, 288-299.	1.1	11
61	Brain Age Prediction With Morphological Features Using Deep Neural Networks: Results From Predictive Analytic Competition 2019. Frontiers in Psychiatry, 2020, 11, 619629.	1.3	11
62	Unexpected Cyclic Behavior in Cosmic-Ray Protons Observed by PAMELA at 1 au. Astrophysical Journal Letters, 2018, 852, L28.	3.0	10
63	Trial latencies estimation of event-related potentials in EEG by means of genetic algorithms. Journal of Neural Engineering, 2018, 15, 026016.	1.8	10
64	A Machine Learning Approach to Parkinson's Disease Blood Transcriptomics. Genes, 2022, 13, 727.	1.0	10
65	SEARCH FOR ANISOTROPIES IN COSMIC-RAY POSITRONS DETECTED BY THE PAMELA EXPERIMENT. Astrophysical Journal, 2015, 811, 21.	1.6	9
66	Potential energy of complex networks: a quantum mechanical perspective. Scientific Reports, 2020, 10, 18387.	1.6	9
67	Economic Interplay Forecasting Business Success. Complexity, 2021, 2021, 1-12.	0.9	9
68	Cosmic Ray Study with the PAMELA Experiment. Journal of Physics: Conference Series, 2013, 409, 012003.	0.3	8
69	Science of atmospheric phenomena with JEM-EUSO. Experimental Astronomy, 2015, 40, 239-251.	1.6	8
70	A Multiplex Network Model to Characterize Brain Atrophy in Structural MRI. Springer Proceedings in Physics, 2017, , 189-198.	0.1	8
71	Estimating and comparing biodiversity with a single universal metric. Ecological Modelling, 2020, 424, 109020.	1.2	8
72	A primer on machine learning techniques for genomic applications. Computational and Structural Biotechnology Journal, 2021, 19, 4345-4359.	1.9	8

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73	Performances of JEM-EUSO: energy and X max reconstruction. <i>Experimental Astronomy</i> , 2015, 40, 183-214.	1.6	7
74	Complex Network Modelling of Origin-Destination Commuting Flows for the COVID-19 Epidemic Spread Analysis in Italian Lombardy Region. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4381.	1.3	7
75	A search algorithm for finding Cosmic-Ray anisotropy with the PAMELA calorimeter. <i>Journal of Physics: Conference Series</i> , 2013, 409, 012029.	0.3	6
76	New measurements of the energy spectra of high-energy cosmic-ray protons and helium nuclei with the calorimeter in the PAMELA experiment. <i>Journal of Experimental and Theoretical Physics</i> , 2014, 119, 448-452.	0.2	6
77	MSA-PAD: DNA multiple sequence alignment framework based on PFAM accessed domain information: Fig. 1.. <i>Bioinformatics</i> , 2015, 31, 2571-2573.	1.8	6
78	Satellite data and machine learning reveal a significant correlation between NO2 and COVID-19 mortality. <i>Environmental Research</i> , 2022, 204, 111970.	3.7	6
79	Psychological counseling in the Italian academic context: Expected needs, activities, and target population in a large sample of students. <i>PLoS ONE</i> , 2022, 17, e0266895.	1.1	6
80	Hydrodynamics and growth laws in lamellar ordering. <i>Europhysics Letters</i> , 2007, 79, 26004.	0.7	5
81	High frequency collective dynamics in liquid potassium. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 3154-3159.	1.5	5
82	Solar energetic particle events in 2006-2012 in the PAMELA experiment data. <i>Journal of Physics: Conference Series</i> , 2013, 409, 012188.	0.3	5
83	Calibration aspects of the JEM-EUSO mission. <i>Experimental Astronomy</i> , 2015, 40, 91-116.	1.6	5
84	PSI Clustering for the Assessment of Underground Infrastructure Deterioration. <i>Remote Sensing</i> , 2020, 12, 3681.	1.8	5
85	Characterization of real-world networks through quantum potentials. <i>PLoS ONE</i> , 2021, 16, e0254384.	1.1	5
86	Anisotropy studies in the cosmic ray proton flux with the PAMELA experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2013, 239-240, 123-128.	0.5	4
87	Galactic deuteron spectrum measured in PAMELA experiment. <i>Journal of Physics: Conference Series</i> , 2013, 409, 012040.	0.3	4
88	Measurement of hydrogen and helium isotopes flux in galactic cosmic rays with the PAMELA experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 742, 273-275.	0.7	4
89	Measurement of the large-scale anisotropy of cosmic rays in the PAMELA experiment. <i>JETP Letters</i> , 2015, 101, 295-298.	0.4	4
90	Ensemble using different Planetary Boundary Layer schemes in WRF model for wind speed and direction prediction over Apulia region. <i>Advances in Science and Research</i> , 0, 14, 95-102.	1.0	4

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91	Country-level factors dynamics and ABO/Rh blood groups contribution to COVID-19 mortality. Scientific Reports, 2021, 11, 24527.	1.6	4
92	Measurement of the high-energy electron and positron spectrum in the PAMELA experiment. Bulletin of the Lebedev Physics Institute, 2010, 37, 184-190.	0.1	3
93	Search for cosmic ray electron-positron anisotropies with the Pamela data. Journal of Physics: Conference Series, 2013, 409, 012055.	0.3	3
94	Measurement of electron-positron spectrum in high-energy cosmic rays in the PAMELA experiment. Journal of Physics: Conference Series, 2015, 632, 012014.	0.3	3
95	Topological Complex Networks Properties for Gene Community Detection Strategy: DRD2 Case Study. Springer Proceedings in Physics, 2017, , 199-208.	0.1	3
96	Random Forests Highlight the Combined Effect of Environmental Heavy Metals Exposure and Genetic Damages for Cardiovascular Diseases. Applied Sciences (Switzerland), 2021, 11, 8405.	1.3	3
97	Results from PAMELA. Nuclear Physics, Section B, Proceedings Supplements, 2011, 217, 243-248.	0.5	2
98	Measurement of antiproton flux in primary cosmic radiation with PAMELA experiment. Journal of Physics: Conference Series, 2013, 409, 012056.	0.3	2
99	A method to detect positron anisotropies with Pamela data. Nuclear Physics, Section B, Proceedings Supplements, 2014, 256-257, 173-178.	0.5	2
100	Analysis on H spectral shape during the early 2012 SEPs with the PAMELA experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 742, 158-161.	0.7	2
101	Solar modulation of GCR electrons over the 23rd solar minimum with PAMELA. Journal of Physics: Conference Series, 2015, 632, 012073.	0.3	2
102	Multidimensional Neuroimaging Processing in ReCaS Datacenter. Lecture Notes in Computer Science, 2019, , 468-477.	1.0	2
103	Machine learning for the assessment of Alzheimer's disease through DTI. , 2017, , .		2
104	North-south asymmetry for high-energy cosmic-ray electrons measured with the PAMELA experiment. Journal of Experimental and Theoretical Physics, 2013, 117, 268-273.	0.2	1
105	Cosmic ray electron and positron spectra measured with PAMELA. Journal of Physics: Conference Series, 2013, 409, 012035.	0.3	1
106	Infrastructure Monitoring for Distributed Tier1: The ReCaS Project Use-Case. , 2014, , .		1
107	PAMELA mission: heralding a new era in cosmic ray physics. EPJ Web of Conferences, 2014, 71, 00115.	0.1	1
108	PAMELA measurements of the boron and carbon spectra. Journal of Physics: Conference Series, 2015, 632, 012017.	0.3	1

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109	Measuring the albedo deuteron flux in the PAMELA satellite experiment. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 294-297.	0.1	1
110	Measuring the spectra of high-energy cosmic-ray particles in the PAMELA experiment. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 289-293.	0.1	1
111	Searching for anisotropy of positrons and electrons in the PAMELA experiment. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 298-301.	0.1	1
112	Salient Networks: A Novel Application to Study Brain Connectivity. Lecture Notes in Computer Science, 2017, , 444-453.	1.0	1
113	Salient networks: a novel application to study Alzheimer disease. BioMedical Engineering OnLine, 2018, 17, 162.	1.3	1
114	Individual Topological Analysis of Synchronization-Based Brain Connectivity. Applied Sciences (Switzerland), 2020, 10, 3275.	1.3	1
115	The PAMELA space mission for antimatter and dark matter searches in space. Hyperfine Interactions, 2012, 213, 147-158.	0.2	0
116	Study of solar modulation of galactic cosmic rays with the PAMELA and ARINA spectrometers in 2006-2012. Journal of Physics: Conference Series, 2013, 409, 012194.	0.3	0
117	The PAMELA experiment: light-nuclei selection with stand-alone detectors. Journal of Physics: Conference Series, 2013, 409, 012038.	0.3	0
118	PRECISE COSMIC RAYS MEASUREMENTS WITH PAMELA. Acta Polytechnica, 2013, 53, 712-717.	0.3	0
119	The PAMELA experiment and antimatter in the universe. Hyperfine Interactions, 2014, 228, 101-109.	0.2	0
120	Solar Modulation of Galactic Cosmic Rays During 2006-2015 Based on PAMELA and ARINA Data. Physics Procedia, 2015, 74, 347-351.	1.2	0
121	Time variations of proton flux in Earth inner radiation belt during 23/24 solar cycles based on the PAMELA and the ARINA data. Journal of Physics: Conference Series, 2015, 632, 012069.	0.3	0
122	Study of deuteron spectra under radiation belt with PAMELA instrument. Journal of Physics: Conference Series, 2015, 632, 012060.	0.3	0
123	Detection of a change in the North-South ratio of count rates of particles of high-energy cosmic rays during a change in the polarity of the magnetic field of the Sun. JETP Letters, 2015, 101, 228-231.	0.4	0
124	MRI analysis for hippocampus segmentation on a distributed infrastructure. , 2016, , .		0
125	DNA Multiple Sequence Alignment Guided by Protein Domains: The MSA-PAD 2.0 Method. Methods in Molecular Biology, 2018, 1746, 173-180.	0.4	0
126	Association between MRI structural features and cognitive measures in pediatric multiple sclerosis. , 2017, , .		0

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127	Age Related Topological Analysis of Synchronization-Based Functional Connectivity. Studies in Computational Intelligence, 2019, , 652-662.	0.7	0