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	Satellite data and machine learning reveal a significant correlation between NO2 and COVID-19 mortality. Environmental Research, 2022, 204, 111970.	3.7	6
2	Sustainable development goals: conceptualization, communication and achievement synergies in a complex network framework. Applied Network Science, 2022, 7, 14.	0.8	12
3	Territorial bias in university rankings: a complex network approach. Scientific Reports, 2022, 12, 4995.	1.6	15
4	Psychological counseling in the Italian academic context: Expected needs, activities, and target population in a large sample of students. PLoS ONE, 2022, 17, e0266895.	1.1	6
5	A Machine Learning Approach to Parkinsonâ€™s Disease Blood Transcriptomics. Genes, 2022, 13, 727.	1.0	10
6	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
7	Predicting brain age with complex networks: From adolescence to adulthood. NeuroImage, 2021, 225, 117458.	2.1	39
8	A primer on machine learning techniques for genomic applications. Computational and Structural Biotechnology Journal, 2021, 19, 4345-4359.	1.9	8
9	Economic Interplay Forecasting Business Success. Complexity, 2021, 2021, 1-12.	0.9	9
10	A Roadmap towards Breast Cancer Therapies Supported by Explainable Artificial Intelligence. Applied Sciences (Switzerland), 2021, 11, 4881.	1.3	24
11	Complex Network Modelling of Originâ€“Destination Commuting Flows for the COVID-19 Epidemic Spread Analysis in Italian Lombardy Region. Applied Sciences (Switzerland), 2021, 11, 4381.	1.3	7
12	Explainable Deep Learning for Personalized Age Prediction With Brain Morphology. Frontiers in Neuroscience, 2021, 15, 674055.	1.4	38
13	Characterization of real-world networks through quantum potentials. PLoS ONE, 2021, 16, e0254384.	1.1	5
14	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
15	Country-level factors dynamics and ABO/Rh blood groups contribution to COVID-19 mortality. Scientific Reports, 2021, 11, 24527.	1.6	4
16	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
17	Association between Structural Connectivity and Generalized Cognitive Spectrum in Alzheimerâ€™s Disease. Brain Sciences, 2020, 10, 879.	1.1	11
18	PSI Clustering for the Assessment of Underground Infrastructure Deterioration. Remote Sensing, 2020, 12, 3681.	1.8	5

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19	An equity-oriented rethink of global rankings with complex networks mapping development. Scientific Reports, 2020, 10, 18046.	1.6	13
20	Potential energy of complex networks: a quantum mechanical perspective. Scientific Reports, 2020, 10, 18387.	1.6	9
21	Machine Learning for Cloud Detection of Globally Distributed Sentinel-2 Images. Remote Sensing, 2020, 12, 2355.	1.8	18
22	Multi-Time-Scale Features for Accurate Respiratory Sound Classification. Applied Sciences (Switzerland), 2020, 10, 8606.	1.3	27
23	Individual Topological Analysis of Synchronization-Based Brain Connectivity. Applied Sciences (Switzerland), 2020, 10, 3275.	1.3	1
24	Machine Learning and DWI Brain Communicability Networks for Alzheimerâ€™s Disease Detection. Applied Sciences (Switzerland), 2020, 10, 934.	1.3	20
25	Extensive Evaluation of Morphological Statistical Harmonization for Brain Age Prediction. Brain Sciences, 2020, 10, 364.	1.1	12
26	Time Dependence of the Flux of Helium Nuclei in Cosmic Rays Measured by the PAMELA Experiment between 2006 July and 2009 December. Astrophysical Journal, 2020, 893, 145.	1.6	21
27	Estimating and comparing biodiversity with a single universal metric. Ecological Modelling, 2020, 424, 109020.	1.2	8
28	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
29	Communicability Characterization of Structural DWI Subcortical Networks in Alzheimerâ€™s Disease. Entropy, 2019, 21, 475.	1.1	14
30	Deep Learning and Multiplex Networks for Accurate Modeling of Brain Age. Frontiers in Aging Neuroscience, 2019, 11, 115.	1.7	41
31	Modelling cognitive loads in schizophrenia by means of new functional dynamic indexes. NeuroImage, 2019, 195, 150-164.	2.1	24
32	Shannon entropy approach reveals relevant genes in Alzheimerâ€™s disease. PLoS ONE, 2019, 14, e0226190.	1.1	19
33	The PERSON project: a serious brain-computer interface game for treatment in cognitive impairment. Health and Technology, 2019, 9, 123-133.	2.1	12
34	Multidimensional Neuroimaging Processing in ReCaS Datacenter. Lecture Notes in Computer Science, 2019, , 468-477.	1.0	2
35	Age Related Topological Analysis of Synchronization-Based Functional Connectivity. Studies in Computational Intelligence, 2019, , 652-662.	0.7	0
36	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

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37	Deep learning reveals Alzheimer's disease onset in MCI subjects: Results from an international challenge. Journal of Neuroscience Methods, 2018, 302, 3-9.	1.3	104
38	Unexpected Cyclic Behavior in Cosmic-Ray Protons Observed by PAMELA at 1 au. Astrophysical Journal Letters, 2018, 852, L28.	3.0	10
39	Trial latencies estimation of event-related potentials in EEG by means of genetic algorithms. Journal of Neural Engineering, 2018, 15, 026016.	1.8	10
40	Salient networks: a novel application to study Alzheimer disease. BioMedical Engineering OnLine, 2018, 17, 162.	1.3	1
41	Multiplex Networks for Early Diagnosis of Alzheimer's Disease. Frontiers in Aging Neuroscience, 2018, 10, 365.	1.7	43
42	Complex networks reveal early MRI markers of Parkinsonâ€™s disease. Medical Image Analysis, 2018, 48, 12-24.	7.0	112
43	A novel approach to brain connectivity reveals early structural changes in Alzheimerâ€™s disease. Physiological Measurement, 2018, 39, 074005.	1.2	22
44	Lithium and Beryllium Isotopes with the PAMELAÂExperiment. Astrophysical Journal, 2018, 862, 141.	1.6	14
45	Alzheimerâ€™s disease diagnosis based on the Hippocampal Unified Multi-Atlas Network (HUMAN) algorithm. BioMedical Engineering OnLine, 2018, 17, 6.	1.3	28
46	A complex network approach reveals a pivotal substructure of genes linked to schizophrenia. PLoS ONE, 2018, 13, e0190110.	1.1	22
47	DTI measurements for Alzheimerâ€™s classification. Physics in Medicine and Biology, 2017, 62, 2361-2375.	1.6	57
48	Salient Networks: A Novel Application to Study Brain Connectivity. Lecture Notes in Computer Science, 2017, , 444-453.	1.0	1
49	A Multiplex Network Model to Characterize Brain Atrophy in Structural MRI. Springer Proceedings in Physics, 2017, , 189-198.	0.1	8
50	Topological Complex Networks Properties for Gene Community Detection Strategy: DRD2 Case Study. Springer Proceedings in Physics, 2017, , 199-208.	0.1	3
51	Geomagnetically trapped, albedo and solar energetic particles: Trajectory analysis and flux reconstruction with PAMELA. Advances in Space Research, 2017, 60, 788-795.	1.2	13
52	Topological Measurements of DWI Tractography for Alzheimerâ€™s Disease Detection. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-10.	0.7	13
53	Machine learning for the assessment of Alzheimer's disease through DTI. , 2017, , .		2
54	Association between MRI structural features and cognitive measures in pediatric multiple sclerosis. , 2017, , .		0

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55	MRI analysis for hippocampus segmentation on a distributed infrastructure. , 2016, , .		0
56	Time Dependence of the Electron and Positron Components of the Cosmic Radiation Measured by the PAMELA Experiment between July 2006 and December 2015. Physical Review Letters, 2016, 116, 241105.	2.9	54
57	PAMELA's measurements of geomagnetic cutoff variations during the 14 December 2006 storm. Space Weather, 2016, 14, 210-220.	1.3	21
58	MEASUREMENTS OF COSMIC-RAY HYDROGEN AND HELIUM ISOTOPES WITH THE PAMELA EXPERIMENT. Astrophysical Journal, 2016, 818, 68.	1.6	49
59	Solar Modulation of Galactic Cosmic Rays During 2006-2015 Based on PAMELA and ARINA Data. Physics Procedia, 2015, 74, 347-351.	1.2	0
60	New Upper Limit on Strange Quark Matter Abundance in Cosmic Rays with the PAMELA Space Experiment. Physical Review Letters, 2015, 115, 111101.	2.9	14
61	TIME DEPENDENCE OF THEe^{â”}FLUX MEASURED BYPAMELADURING THE 2006 JULYâ€“2009 DECEMBER SOLAR MINIMUM. Astrophysical Journal, 2015, 810, 142.	1.6	60
62	Performances of JEMâ€“EUSO: energy and X max reconstruction. Experimental Astronomy, 2015, 40, 183-214.	1.6	7
63	Calibration aspects of the JEM-EUSO mission. Experimental Astronomy, 2015, 40, 91-116.	1.6	5
64	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
65	Reentrant albedo proton fluxes measured by the PAMELA experiment. Journal of Geophysical Research: Space Physics, 2015, 120, 3728-3738.	0.8	20
66	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
67	PAMELA measurements of the boron and carbon spectra. Journal of Physics: Conference Series, 2015, 632, 012017.	0.3	1
68	Study of deuteron spectra under radiation belt with PAMELA instrument. Journal of Physics: Conference Series, 2015, 632, 012060.	0.3	0
69	Solar modulation of GCR electrons over the 23rd solar minimum with PAMELA. Journal of Physics: Conference Series, 2015, 632, 012073.	0.3	2
70	SEARCH FOR ANISOTROPIES IN COSMIC-RAY POSITRONS DETECTED BY THE PAMELA EXPERIMENT. Astrophysical Journal, 2015, 811, 21.	1.6	9
71	TRAPPED PROTON FLUXES AT LOW EARTH ORBITS MEASURED BY THE PAMELA EXPERIMENT. Astrophysical Journal Letters, 2015, 799, L4.	3.0	27
72	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

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73	Measurement of the large-scale anisotropy of cosmic rays in the PAMELA experiment. JETP Letters, 2015, 101, 295-298.	0.4	4
74	MSA-PAD: DNA multiple sequence alignment framework based on PFAM accessed domain information: Fig. 1.. Bioinformatics, 2015, 31, 2571-2573.	1.8	6
75	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
76	Force-field parameterization of the galactic cosmic ray spectrum: Validation for Forbush decreases. Advances in Space Research, 2015, 55, 2940-2945.	1.2	18
77	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
78	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
79	BioMaS: a modular pipeline for Bioinformatic analysis of Metagenomic AmpliconS. BMC Bioinformatics, 2015, 16, 203.	1.2	49
80	Science of atmospheric phenomena with JEM-EUSO. Experimental Astronomy, 2015, 40, 239-251.	1.6	8
81	PAMELAâ€™S MEASUREMENTS OF MAGNETOSPHERIC EFFECTS ON HIGH-ENERGY SOLAR PARTICLES. Astrophysical Journal Letters, 2015, 801, L3.	3.0	27
82	The EUSO-Balloon pathfinder. Experimental Astronomy, 2015, 40, 281-299.	1.6	31
83	Infrastructure Monitoring for Distributed Tier1: The ReCaS Project Use-Case. , 2014, , .		1
84	The PAMELA Mission: Heralding a new era in precision cosmic ray physics. Physics Reports, 2014, 544, 323-370.	10.3	147
85	A method to detect positron anisotropies with Pamela data. Nuclear Physics, Section B, Proceedings Supplements, 2014, 256-257, 173-178.	0.5	2
86	MEASUREMENT OF BORON AND CARBON FLUXES IN COSMIC RAYS WITH THE PAMELA EXPERIMENT. Astrophysical Journal, 2014, 791, 93.	1.6	127
87	New measurements of the energy spectra of high-energy cosmic-ray protons and helium nuclei with the calorimeter in the PAMELA experiment. Journal of Experimental and Theoretical Physics, 2014, 119, 448-452.	0.2	6
88	Testing of several distributed file-systems (HDFS, Ceph and GlusterFS) for supporting the HEP experiments analysis. Journal of Physics: Conference Series, 2014, 513, 042014.	0.3	13
89	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
90	Measurement of hydrogen and helium isotopes flux in galactic cosmic rays with the PAMELA experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 742, 273-275.	0.7	4

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91	The PAMELA experiment and antimatter in the universe. Hyperfine Interactions, 2014, 228, 101-109.	0.2	0
92	PAMELA mission: heralding a new era in cosmic ray physics. EPJ Web of Conferences, 2014, 71, 00115.	0.1	1
93	Cosmic-Ray Positron Energy Spectrum Measured by PAMELA. Physical Review Letters, 2013, 111, 081102.	2.9	243
94	Measurement of the flux of primary cosmic ray antiprotons with energies of 60 MeV to 350 GeV in the PAMELA experiment. JETP Letters, 2013, 96, 621-627.	0.4	105
95	The PAMELA space experiment. Advances in Space Research, 2013, 51, 209-218.	1.2	45
96	Measurements of cosmic-ray proton and helium spectra with the PAMELA calorimeter. Advances in Space Research, 2013, 51, 219-226.	1.2	36
97	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
98	Anisotropy studies in the cosmic ray proton flux with the PAMELA experiment. Nuclear Physics, Section B, Proceedings Supplements, 2013, 239-240, 123-128.	0.5	4
99	TIME DEPENDENCE OF THE PROTON FLUX MEASURED BY PAMELA DURING THE 2006 JULY-2009 DECEMBER SOLAR MINIMUM. Astrophysical Journal, 2013, 765, 91.	1.6	223
100	Measurement of antiproton flux in primary cosmic radiation with PAMELA experiment. Journal of Physics: Conference Series, 2013, 409, 012056.	0.3	2
101	Cosmic Ray Study with the PAMELA Experiment. Journal of Physics: Conference Series, 2013, 409, 012003.	0.3	8
102	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
103	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
104	Galactic deuteron spectrum measured in PAMELA experiment. Journal of Physics: Conference Series, 2013, 409, 012040.	0.3	4
105	A search algorithm for finding Cosmic-Ray anisotropy with the PAMELA calorimeter. Journal of Physics: Conference Series, 2013, 409, 012029.	0.3	6
106	Cosmic ray electron and positron spectra measured with PAMELA. Journal of Physics: Conference Series, 2013, 409, 012035.	0.3	1
107	The PAMELA experiment: light-nuclei selection with stand-alone detectors. Journal of Physics: Conference Series, 2013, 409, 012038.	0.3	0
108	Search for cosmic ray electron-positron anisotropies with the Pamela data. Journal of Physics: Conference Series, 2013, 409, 012055.	0.3	3

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109	Solar energetic particle events in 2006-2012 in the PAMELA experiment data. Journal of Physics: Conference Series, 2013, 409, 012188.	0.3	5
110	PRECISE COSMIC RAYS MEASUREMENTS WITH PAMELA. Acta Polytechnica, 2013, 53, 712-717.	0.3	0
111	The PAMELA space mission for antimatter and dark matter searches in space. Hyperfine Interactions, 2012, 213, 147-158.	0.2	0
112	Cosmic-Ray Electron Flux Measured by the PAMELA Experiment between 1 and 625ÂGeV. Physical Review Letters, 2011, 106, 201101.	2.9	281
113	PAMELA Measurements of Cosmic-Ray Proton and Helium Spectra. Science, 2011, 332, 69-72.	6.0	686
114	OBSERVATIONS OF THE 2006 DECEMBER 13 AND 14 SOLAR PARTICLE EVENTS IN THE 80 MeV n^{â€“1}-3 GeV n^{â€“1}RANGE FROM SPACE WITH THE PAMELA DETECTOR. Astrophysical Journal, 2011, 742, 102.	1.6	83
115	THE DISCOVERY OF GEOMAGNETICALLY TRAPPED COSMIC-RAY ANTIPROTONS. Astrophysical Journal Letters, 2011, 737, L29.	3.0	40
116	Equivalence of the Boson Peak in Glasses to the Transverse Acoustic vanÂHove Singularity in Crystals. Physical Review Letters, 2011, 106, 225501.	2.9	234
117	Results from PAMELA. Nuclear Physics, Section B, Proceedings Supplements, 2011, 217, 243-248.	0.5	2
118	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
119	A statistical procedure for the identification of positrons in the PAMELA experiment. Astroparticle Physics, 2010, 34, 1-11.	1.9	168
120	PAMELA Results on the Cosmic-Ray Antiproton Flux from 60ÂMeV to 180ÂGeV in Kinetic Energy. Physical Review Letters, 2010, 105, 121101.	2.9	444
121	Measurements of quasiâ€trapped electron and positron fluxes with PAMELA. Journal of Geophysical Research, 2009, 114, .	3.3	17
122	Hydrodynamics and growth laws in lamellar ordering. Europhysics Letters, 2007, 79, 26004.	0.7	5
123	High frequency collective dynamics in liquid potassium. Journal of Non-Crystalline Solids, 2007, 353, 3154-3159.	1.5	5
124	Density of Vibrational States of a Hyperquenched Glass. Physical Review Letters, 2006, 96, 205502.	2.9	51
125	Effect of Densification on the Density of Vibrational States of Glasses. Physical Review Letters, 2006, 97, 135501.	2.9	99
126	Collective dynamics in molten potassium:â€,An inelastic x-ray scattering study. Journal of Chemical Physics, 2004, 120, 8089-8094.	1.2	23

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127	Ensemble using different Planetary Boundary Layer schemes in WRF model for wind speed and direction prediction over Apulia region. Advances in Science and Research, 0, 14, 95-102.	1.0	4