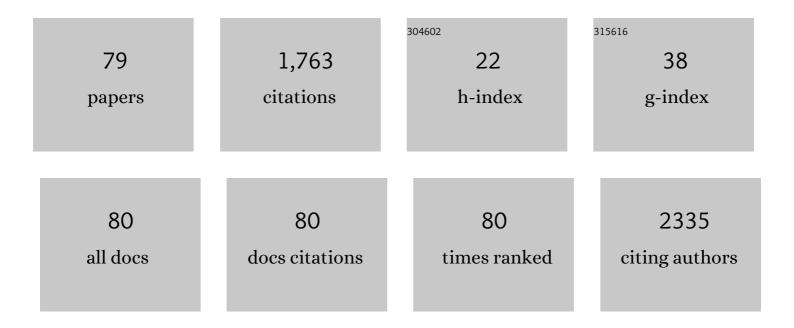
## Nicola Amoroso

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7281619/publications.pdf Version: 2024-02-01



#	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	High-concentration methane and ethane QEPAS detection employing partial least squares regression to filter out energy relaxation dependence on gas matrix composition. Photoacoustics, 2022, 26, 100349.	4.4	41
4	Territorial bias in university rankings: a complex network approach. Scientific Reports, 2022, 12, 4995.	1.6	15
5	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
6	A Machine Learning Approach to Parkinson's Disease Blood Transcriptomics. Genes, 2022, 13, 727.	1.0	10
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	From complex to neural networks. , 2021, , 137-154.		0
10	A Proposal of Quantum-Inspired Machine Learning for Medical Purposes: An Application Case. Mathematics, 2021, 9, 410.	1.1	7
11	Economic Interplay Forecasting Business Success. Complexity, 2021, 2021, 1-12.	0.9	9
12	A Roadmap towards Breast Cancer Therapies Supported by Explainable Artificial Intelligence. Applied Sciences (Switzerland), 2021, 11, 4881.	1.3	24
13	Complex Network Modelling of Origin–Destination Commuting Flows for the COVID-19 Epidemic Spread Analysis in Italian Lombardy Region. Applied Sciences (Switzerland), 2021, 11, 4381.	1.3	7
14	Explainable Deep Learning for Personalized Age Prediction With Brain Morphology. Frontiers in Neuroscience, 2021, 15, 674055.	1.4	38
15	Characterization of real-world networks through quantum potentials. PLoS ONE, 2021, 16, e0254384.	1.1	5
16	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
17	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
18	Association between Structural Connectivity and Generalized Cognitive Spectrum in Alzheimer's Disease. Brain Sciences, 2020, 10, 879.	1.1	11

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19	PSI Clustering for the Assessment of Underground Infrastructure Deterioration. Remote Sensing, 2020, 12, 3681.	1.8	5
20	An equity-oriented rethink of global rankings with complex networks mapping development. Scientific Reports, 2020, 10, 18046.	1.6	13
21	Potential energy of complex networks: a quantum mechanical perspective. Scientific Reports, 2020, 10, 18387.	1.6	9
22	Machine Learning for Cloud Detection of Globally Distributed Sentinel-2 Images. Remote Sensing, 2020, 12, 2355.	1.8	18
23	<i>De Novo</i> Drug Design of Targeted Chemical Libraries Based on Artificial Intelligence and Pair-Based Multiobjective Optimization. Journal of Chemical Information and Modeling, 2020, 60, 4582-4593.	2.5	55
24	Multiplex Networks to Characterize Seizure Development in Traumatic Brain Injury Patients. Frontiers in Neuroscience, 2020, 14, 591662.	1.4	9
25	Multi-Time-Scale Features for Accurate Respiratory Sound Classification. Applied Sciences (Switzerland), 2020, 10, 8606.	1.3	27
26	Individual Topological Analysis of Synchronization-Based Brain Connectivity. Applied Sciences (Switzerland), 2020, 10, 3275.	1.3	1
27	Machine Learning and DWI Brain Communicability Networks for Alzheimer's Disease Detection. Applied Sciences (Switzerland), 2020, 10, 934.	1.3	20
28	Extensive Evaluation of Morphological Statistical Harmonization for Brain Age Prediction. Brain Sciences, 2020, 10, 364.	1.1	12
29	Estimating and comparing biodiversity with a single universal metric. Ecological Modelling, 2020, 424, 109020.	1.2	8
30	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
31	Diffusion-weighted imaging (DWI) tractography and Alzheimer's disease. , 2020, , 313-325.		3
32	Identifying potential gene biomarkers for Parkinson's disease through an information entropy based approach. Physical Biology, 2020, 18, 016003.	0.8	16
33	Mapping digital governance projects through complex networks. , 2020, , .		0
34	Communicability disruption in Alzheimer's disease connectivity networks. Journal of Complex Networks, 2019, 7, 83-100.	1.1	26
35	Association between miRNAs expression and cognitive performances of Pediatric Multiple Sclerosis patients: A pilot study. Brain and Behavior, 2019, 9, e01199.	1.0	26
36	Communicability Characterization of Structural DWI Subcortical Networks in Alzheimer's Disease. Entropy, 2019, 21, 475.	1.1	14

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37	Deep Learning and Multiplex Networks for Accurate Modeling of Brain Age. Frontiers in Aging Neuroscience, 2019, 11, 115.	1.7	41
38	Modelling cognitive loads in schizophrenia by means of new functional dynamic indexes. NeuroImage, 2019, 195, 150-164.	2.1	24
39	Thalamic connectivity measured with fMRI is associated with a polygenic index predicting thalamo-prefrontal gene co-expression. Brain Structure and Function, 2019, 224, 1331-1344.	1.2	18
40	Shannon entropy approach reveals relevant genes in Alzheimer's disease. PLoS ONE, 2019, 14, e0226190.	1.1	19
41	The PERSON project: a serious brain-computer interface game for treatment in cognitive impairment. Health and Technology, 2019, 9, 123-133.	2.1	12
42	Multidimensional Neuroimaging Processing in ReCaS Datacenter. Lecture Notes in Computer Science, 2019, , 468-477.	1.0	2
43	Age Related Topological Analysis of Synchronization-Based Functional Connectivity. Studies in Computational Intelligence, 2019, , 652-662.	0.7	0
44	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
45	24. Alzheimer pattern recognition in brain images using complex networks. Physica Medica, 2018, 56, 76.	0.4	1
46	Salient networks: a novel application to study Alzheimer disease. BioMedical Engineering OnLine, 2018, 17, 162.	1.3	1
47	Multiplex Networks for Early Diagnosis of Alzheimer's Disease. Frontiers in Aging Neuroscience, 2018, 10, 365.	1.7	43
48	Applying Big Data Methods to Understanding Human Behavior and Health. Frontiers in Computational Neuroscience, 2018, 12, 84.	1.2	10
49	Complex networks reveal early MRI markers of Parkinson's disease. Medical Image Analysis, 2018, 48, 12-24.	7.0	112
50	A novel approach to brain connectivity reveals early structural changes in Alzheimer's disease. Physiological Measurement, 2018, 39, 074005.	1.2	22
51	Transcriptomic context of <i>DRD1</i> is associated with prefrontal activity and behavior during working memory. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5582-5587.	3.3	18
52	Alzheimer's disease diagnosis based on the Hippocampal Unified Multi-Atlas Network (HUMAN) algorithm. BioMedical Engineering OnLine, 2018, 17, 6.	1.3	28
53	A complex network approach reveals a pivotal substructure of genes linked to schizophrenia. PLoS ONE, 2018, 13, e0190110.	1.1	22
54	DTI measurements for Alzheimer's classification. Physics in Medicine and Biology, 2017, 62, 2361-2375.	1.6	57

4

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55	Salient Networks: A Novel Application to Study Brain Connectivity. Lecture Notes in Computer Science, 2017, , 444-453.	1.0	1
56	A Multiplex Network Model to Characterize Brain Atrophy in Structural MRI. Springer Proceedings in Physics, 2017, , 189-198.	0.1	8
57	Topological Complex Networks Properties for Gene Community Detection Strategy: DRD2 Case Study. Springer Proceedings in Physics, 2017, , 199-208.	0.1	3
58	A fuzzy-based system reveals Alzheimer's Disease onset in subjects with Mild Cognitive Impairment. Physica Medica, 2017, 38, 36-44.	0.4	18
59	Grey matter volume patterns in thalamic nuclei are associated with familial risk for schizophrenia. Schizophrenia Research, 2017, 180, 13-20.	1.1	40
60	Topological Measurements of DWI Tractography for Alzheimer's Disease Detection. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-10.	0.7	13
61	Multivariate regression analysis of structural MRI connectivity matrices in Alzheimer's disease. PLoS ONE, 2017, 12, e0187281.	1.1	15
62	Integrating Supervised Classification in Social Participation Systems for Disaster Response. A Pilot Study. Lecture Notes in Computer Science, 2017, , 675-686.	1.0	1
63	Machine learning for the assessment of Alzheimer's disease through DTI. , 2017, , .		2
64	A multi-layer MRI description of Parkinson's disease. , 2017, , .		0
65	Association between MRI structural features and cognitive measures in pediatric multiple sclerosis. , 2017, , .		Ο
66	Computer Aided Detection System for Prediction of the Malaise during Hemodialysis. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-10.	0.7	4
67	Crowdsourced estimation of cognitive decline and resilience in Alzheimer's disease. Alzheimer's and Dementia, 2016, 12, 645-653.	0.4	72
68	MRI analysis for hippocampus segmentation on a distributed infrastructure. , 2016, , .		0
69	Automated hippocampal segmentation in 3D MRI using random undersampling with boosting algorithm. Pattern Analysis and Applications, 2016, 19, 579-591.	3.1	24
70	Integrating longitudinal information in hippocampal volume measurements for the early detection of Alzheimer's disease. Neurolmage, 2016, 125, 834-847.	2.1	76
71	Multiple RF classifier for the hippocampus segmentation: Method and validation on EADC-ADNI Harmonized Hippocampal Protocol. Physica Medica, 2015, 31, 1085-1091.	0.4	15
72	Complex networks and public funding: the case of the 2007-2013 Italian program. EPJ Data Science, 2015, 4, .	1.5	3

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73	Hippocampal unified multi-atlas network (HUMAN): protocol and scale validation of a novel segmentation tool. Physics in Medicine and Biology, 2015, 60, 8851-8867.	1.6	31
74	Feature Selection Based on Machine Learning in MRIs for Hippocampal Segmentation. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-10.	0.7	25
75	Standardized evaluation of algorithms for computer-aided diagnosis of dementia based on structural MRI: The CADDementia challenge. NeuroImage, 2015, 111, 562-579.	2.1	266
76	An Hippocampal Segmentation Tool Within an Open Cloud Infrastructure. Lecture Notes in Computer Science, 2015, , 193-200.	1.0	0
77	Automated voxel-by-voxel tissue classification for hippocampal segmentation: Methods and validation. Physica Medica, 2014, 30, 878-887.	0.4	31
78	Random Forest Classification for Hippocampal Segmentation in 3D MR Images. , 2013, , .		9
79	Alzheimer's disease markers from structural MRI and FDG-PET brain images. European Physical Journal Plus, 2012, 127, 1.	1.2	15