

Carlo Vittorio Cannistraci

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

5,363
citations

156536

32
h-index

139680

61
g-index

84
all docs

84
docs citations

84
times ranked

12468
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy-sparing by 2-methyl-2-thiazoline protects heart from ischaemia/reperfusion injury. ESC Heart Failure, 2022, 9, 428-441.	1.4	3
2	Salt-Specific Gene Expression Reveals Elevated Auxin Levels in Arabidopsis thaliana Plants Grown Under Saline Conditions. Frontiers in Plant Science, 2022, 13, 804716.	1.7	19
3	Measuring Group Separability in Geometrical Space for Evaluation of Pattern Recognition and Dimension Reduction Algorithms. IEEE Access, 2022, 10, 22441-22471.	2.6	1
4	Medial prefrontal and occipito-temporal activity at encoding determines enhanced recognition of threatening faces after 1.5 years. Brain Structure and Function, 2022, 227, 1655-1672.	1.2	2
5	Prevalence, Characteristics, and Outcomes of COVID-19-Associated Acute Myocarditis. Circulation, 2022, 145, 1123-1139.	1.6	118
6	Cell Mechanics Based Computational Classification of Red Blood Cells Via Machine Intelligence Applied to Morpho-Rheological Markers. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1405-1415.	1.9	4
7	Nonlinear machine learning pattern recognition and bacteria-metabolite multilayer network analysis of perturbed gastric microbiome. Nature Communications, 2021, 12, 1926.	5.8	22
8	Geometrical inspired pre-weighting enhances Markov clustering community detection in complex networks. Applied Network Science, 2021, 6, .	0.8	4
9	Age-sex population adjusted analysis of disease severity in epidemics as a tool to devise public health policies for COVID-19. Scientific Reports, 2021, 11, 11787.	1.6	29
10	Discovery of widespread transcription initiation at microsatellites predictable by sequence-based deep neural network. Nature Communications, 2021, 12, 3297.	5.8	11
11	Use of Steroid Profiling Combined With Machine Learning for Identification and Subtype Classification in Primary Aldosteronism. JAMA Network Open, 2020, 3, e2016209.	2.8	53
12	Functional annotation of human long noncoding RNAs via molecular phenotyping. Genome Research, 2020, 30, 1060-1072.	2.4	109
13	Three-dimensional facial-image analysis to predict heterogeneity of the human ageing rate and the impact of lifestyle. Nature Metabolism, 2020, 2, 946-957.	5.1	45
14	Modular gateway-ness connectivity and structural core organization in maritime network science. Nature Communications, 2020, 11, 2849.	5.8	30
15	Intrinsic plasticity of silicon nanowire neurotransistors for dynamic memory and learning functions. Nature Electronics, 2020, 3, 398-408.	13.1	37
16	Steroid metabolomics: machine learning and multidimensional diagnostics for adrenal cortical tumors, hyperplasias, and related disorders. Current Opinion in Endocrine and Metabolic Research, 2019, 8, 40-49.	0.6	8
17	Systems Network Genomic Analysis Reveals Cardioprotective Effect of MURC/Cavin4 Deletion Against Ischemia/Reperfusion Injury. Journal of the American Heart Association, 2019, 8, e012047.	1.6	10
18	Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. PLoS Biology, 2019, 17, e3000443.	2.6	51

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19	Controlling distinct signaling states in cultured cancer cells provides a new platform for drug discovery. <i>FASEB Journal</i> , 2019, 33, 9235-9249.	0.2	7
20	Functional Brain Network Topology Discriminates between Patients with Minimally Conscious State and Unresponsive Wakefulness Syndrome. <i>Journal of Clinical Medicine</i> , 2019, 8, 306.	1.0	35
21	Navigability evaluation of complex networks by greedy routing efficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1468-1469.	3.3	25
22	Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443.		0
23	Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443.		0
24	Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443.		0
25	Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443.		0
26	Machine learning of human plasma lipidomes for obesity estimation in a large population cohort. , 2019, 17, e3000443.		0
27	“Summer Shift”: A Potential Effect of Sunshine on the Time Onset of ST-Elevation Acute Myocardial Infarction. <i>Journal of the American Heart Association</i> , 2018, 7, .	1.6	20
28	Pioneering topological methods for network-based drug-target prediction by exploiting a brain-network self-organization theory. <i>Briefings in Bioinformatics</i> , 2018, 19, 1183-1202.	3.2	46
29	Ceruleoplasmin replacement therapy ameliorates neurological symptoms in a preclinical model of Åaceruloplasminemia. <i>EMBO Molecular Medicine</i> , 2018, 10, 91-106.	3.3	48
30	Modelling Self-Organization in Complex Networks Via a Brain-Inspired Network Automata Theory Improves Link Reliability in Protein Interactomes. <i>Scientific Reports</i> , 2018, 8, 15760.	1.6	10
31	Lipidomics in Major Depressive Disorder. <i>Frontiers in Psychiatry</i> , 2018, 9, 459.	1.3	44
32	A nonuniform popularity-similarity optimization (nPSO) model to efficiently generate realistic complex networks with communities. <i>New Journal of Physics</i> , 2018, 20, 052002.	1.2	61
33	Reward-enhanced encoding improves relearning of forgotten associations. <i>Scientific Reports</i> , 2018, 8, 8557.	1.6	3
34	Morphogenetic degeneracies in the actomyosin cortex. <i>ELife</i> , 2018, 7, .	2.8	41
35	Enlightening discriminative network functional modules behind Principal Component Analysis separation in differential-omic science studies. <i>Scientific Reports</i> , 2017, 7, 43946.	1.6	45
36	Semi-supervised community detection based on non-negative matrix factorization with node popularity. <i>Information Sciences</i> , 2017, 381, 304-321.	4.0	65

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37	Machine learning meets complex networks via coalescent embedding in the hyperbolic space. <i>Nature Communications</i> , 2017, 8, 1615.	5.8	120
38	Can local-community-paradigm and epitopological learning enhance our understanding of how local brain connectivity is able to process, learn and memorize chronic pain?. <i>Applied Network Science</i> , 2017, 2, 28.	0.8	14
39	Gender, Contraceptives and Individual Metabolic Predisposition Shape a Healthy Plasma Lipidome. <i>Scientific Reports</i> , 2016, 6, 27710.	1.6	91
40	Effects of Proton Pump Inhibitors on the Gastric Mucosa-Associated Microbiota in Dyspeptic Patients. <i>Applied and Environmental Microbiology</i> , 2016, 82, 6633-6644.	1.4	85
41	Nonlinear Dimensionality Reduction by Minimum Curvilinearity for Unsupervised Discovery of Patterns in Multidimensional Proteomic Data. <i>Methods in Molecular Biology</i> , 2016, 1384, 289-298.	0.4	3
42	Image Pretreatment Tools I: Algorithms for Map Denoising and Background Subtraction Methods. <i>Methods in Molecular Biology</i> , 2016, 1384, 79-89.	0.4	4
43	Serological immune response against ADAM10 pro-domain is associated with favourable prognosis in stage III colorectal cancer patients. <i>Oncotarget</i> , 2016, 7, 80059-80076.	0.8	11
44	Median Modified Wiener Filter for nonlinear adaptive spatial denoising of protein NMR multidimensional spectra. <i>Scientific Reports</i> , 2015, 5, 8017.	1.6	29
45	Drug target prioritization by perturbed gene expression and network information. <i>Scientific Reports</i> , 2015, 5, 17417.	1.6	107
46	Highlighting nonlinear patterns in population genetics datasets. <i>Scientific Reports</i> , 2015, 5, 8140.	1.6	31
47	Common neighbours and the local-community-paradigm for topological link prediction in bipartite networks. <i>New Journal of Physics</i> , 2015, 17, 113037.	1.2	105
48	The co-transcriptome of uropathogenic <i>Escherichia coli</i> -infected mouse macrophages reveals new insights into host-pathogen interactions. <i>Cellular Microbiology</i> , 2015, 17, 730-746.	1.1	90
49	A promoter-level mammalian expression atlas. <i>Nature</i> , 2014, 507, 462-470.	13.7	1,838
50	Increased expression of Myosin binding protein H in the skeletal muscle of amyotrophic lateral sclerosis patients. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 99-106.	1.8	49
51	Specificity and transcriptional activity of microbiota associated with low and high microbial abundance sponges from the Red Sea. <i>Molecular Ecology</i> , 2014, 23, 1348-1363.	2.0	139
52	GeoChip-based insights into the microbial functional gene repertoire of marine sponges (high) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147832-843.	1.3	55
53	Exploring the genetics underlying autoimmune diseases with network analysis and link prediction. , 2014, , .		2
54	Pivotal role of the muscle-contraction pathway in cryptorchidism and evidence for genomic connections with cardiomyopathy pathways in RASopathies. <i>BMC Medical Genomics</i> , 2013, 6, 5.	0.7	33

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55	Exploitation of genetic interaction network topology for the prediction of epistatic behavior. <i>Genomics</i> , 2013, 102, 202-208.	1.3	17
56	From link-prediction in brain connectomes and protein interactomes to the local-community-paradigm in complex networks. <i>Scientific Reports</i> , 2013, 3, 1613.	1.6	311
57	Minimum curvilinearity to enhance topological prediction of protein interactions by network embedding. <i>Bioinformatics</i> , 2013, 29, i199-i209.	1.8	93
58	Still Need for Compelling Evidence to Support the Circadian Dependence of Infarct Size After ST-Elevation Myocardial Infarction. <i>Circulation Research</i> , 2013, 113, e43-4.	2.0	10
59	Questing for Circadian Dependence in ST-Segmentâ€“Elevation Acute Myocardial Infarction. <i>Circulation Research</i> , 2013, 112, e110-4.	2.0	35
60	Working Memory Load Attenuates Emotional Enhancement in Recognition Memory. <i>Frontiers in Psychology</i> , 2013, 4, 112.	1.1	18
61	Identification and Predictive Value of Interleukin-6 ⁺ Interleukin-10 ⁺ and Interleukin-6 ^{âˆ“} Interleukin-10 ⁺ Cytokine Patterns in ST-Elevation Acute Myocardial Infarction. <i>Circulation Research</i> , 2012, 111, 1336-1348.	2.0	72
62	Acclimation increases freezing stress response of <i>Arabidopsis thaliana</i> at proteome level. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 813-825.	1.1	26
63	Ceruloplasmin Oxidation, a Feature of Parkinson's Disease CSF, Inhibits Ferroxidase Activity and Promotes Cellular Iron Retention. <i>Journal of Neuroscience</i> , 2011, 31, 18568-18577.	1.7	111
64	Nonlinear dimension reduction and clustering by Minimum Curvilinearity unfold neuropathic pain and tissue embryological classes. <i>Bioinformatics</i> , 2010, 26, i531-i539.	1.8	61
65	An Atlas of Combinatorial Transcriptional Regulation in Mouse and Man. <i>Cell</i> , 2010, 140, 744-752.	13.5	667
66	An Atlas of Combinatorial Transcriptional Regulation in Mouse and Man. <i>Cell</i> , 2010, 141, 369.	13.5	4
67	Medianâ€“modified Wiener filter provides efficient denoising, preserving spot edge and morphology in 2â€“DE image processing. <i>Proteomics</i> , 2009, 9, 4908-4919.	1.3	59
68	Protein fingerprints of cultured CA3-CA1 hippocampal neurons: comparative analysis of the distribution of synaptosomal and cytosolic proteins. <i>BMC Neuroscience</i> , 2008, 9, 36.	0.8	22