## Stefano Toppo

List of Publications by Year in descending order

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87888 38395 9,895 107 38 95 citations g-index h-index papers 124 124 124 14764 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Vimentin binds to G-quadruplex repeats found at telomeres and gene promoters. Nucleic Acids Research, 2022, 50, 1370-1381.	14.5	13
2	Rapid SARS-CoV-2 Intra-Host and Within-Household Emergence of Novel Haplotypes. Viruses, 2022, 14, 399.	<b>3.</b> 3	5
3	Phylogeography and genomic epidemiology of SARS-CoV-2 in Italy and Europe with newly characterized Italian genomes between February-June 2020. Scientific Reports, 2022, 12, 5736.	3.3	6
4	Longitudinal analysis of T cell receptor repertoires reveals shared patterns of antigen-specific response to SARS-CoV-2 infection. JCI Insight, 2022, 7, .	5 <b>.</b> 0	15
5	A Circadian Hygiene Education Initiative Covering the Pre-pandemic and Pandemic Period Resulted in Earlier Get-Up Times in Italian University Students: An Ecological Study. Frontiers in Neuroscience, 2022, 16, 848602.	2.8	3
6	The glutathione peroxidase family: Discoveries and mechanism. Free Radical Biology and Medicine, 2022, 187, 113-122.	2.9	64
7	Human Virus Genomes Are Enriched in Conserved Adenine/Thymine/Uracil Multiple Tracts That Pause Polymerase Progression. Frontiers in Microbiology, 2022, 13, .	3.5	O
8	Neutralising reactivity against SARS-CoV-2 Delta and Omicron variants by vaccination and infection history. Genome Medicine, 2022, 14, .	8.2	15
9	A white paper on Phospholipid Hydroperoxide Glutathione Peroxidase (GPx4) forty years later. Free Radical Biology and Medicine, 2022, 188, 117-133.	2.9	33
10	Aerobic pyruvate metabolism sensitizes cells to ferroptosis primed by GSH depletion. Free Radical Biology and Medicine, 2021, 167, 45-53.	2.9	19
11	SARS-CoV-2 antibody dynamics and transmission from community-wide serological testing in the Italian municipality of Vo'. Nature Communications, 2021, 12, 4383.	12.8	33
12	QPARSE: searching for long-looped or multimeric G-quadruplexes potentially distinctive and druggable. Bioinformatics, 2020, 36, 393-399.	4.1	16
13	Insight into the mechanism of ferroptosis inhibition by ferrostatin-1. Redox Biology, 2020, 28, 101328.	9.0	369
14	Inactivation of the glutathione peroxidase GPx4 by the ferroptosisâ€inducing molecule RSL3 requires the adaptor protein 14â€3â€3Îμ. FEBS Letters, 2020, 594, 611-624.	2.8	41
15	Lack of glutathione peroxidase-8 in the ER impacts on lipid composition of HeLa cells microsomal membranes. Free Radical Biology and Medicine, 2020, 147, 80-89.	2.9	13
16	Suppression of a SARS-CoV-2 outbreak in the Italian municipality of Vo'. Nature, 2020, 584, 425-429.	27.8	872
17	Evolutionary Study of the Crassphage Virus at Gene Level. Viruses, 2020, 12, 1035.	3.3	8
18	Copper/Zinc Superoxide Dismutase from the Crocodile Icefish Chionodraco hamatus: Antioxidant Defense at Constant Sub-Zero Temperature. Antioxidants, 2020, 9, 325.	5.1	22

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19	Molecular characterization of novel mitochondrial peroxiredoxins from the Antarctic emerald rockcod and their gene expression in response to environmental warming. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2019, 225, 108580.	2.6	20
20	The CAFA challenge reports improved protein function prediction and new functional annotations for hundreds of genes through experimental screens. Genome Biology, 2019, 20, 244.	8.8	261
21	NeSSie: a tool for the identification of approximate DNA sequence symmetries. Bioinformatics, 2018, 34, 2503-2505.	4.1	11
22	Loss of cardiac Wnt $\hat{\Pi}^2$ -catenin signalling in desmoplakin-deficient AC8 zebrafish models is rescuable by genetic and pharmacological intervention. Cardiovascular Research, 2018, 114, 1082-1097.	3.8	39
23	G-quadruplex forming sequences in the genome of all known human viruses: A comprehensive guide. PLoS Computational Biology, 2018, 14, e1006675.	3.2	106
24	Optimizing PCR primers targeting the bacterial 16S ribosomal RNA gene. BMC Bioinformatics, 2018, 19, 343.	2.6	39
25	Transcriptome and Cell Physiological Analyses in Different Rice Cultivars Provide New Insights Into Adaptive and Salinity Stress Responses. Frontiers in Plant Science, 2018, 9, 204.	3.6	65
26	Pathway Inspector: a pathway based web application for RNAseq analysis of model and non-model organisms. Bioinformatics, 2017, 33, 453-455.	4.1	20
27	Glutathione peroxidase 4-catalyzed reduction of lipid hydroperoxides in membranes: The polar head of membrane phospholipids binds the enzyme and addresses the fatty acid hydroperoxide group toward the redox center. Free Radical Biology and Medicine, 2017, 112, 1-11.	2.9	97
28	Mapping and characterization of G-quadruplexes in Mycobacterium tuberculosis gene promoter regions. Scientific Reports, 2017, 7, 5743.	3.3	77
29	Redox status in a model of cancer stem cells. Archives of Biochemistry and Biophysics, 2017, 617, 120-128.	3.0	10
30	Sox10 contributes to the balance of fate choice in dorsal root ganglion progenitors. PLoS ONE, 2017, 12, e0172947.	2.5	24
31	Characterization of Intra-Type Variants of Oncogenic Human Papillomaviruses by Next-Generation Deep Sequencing of the E6/E7 Region. Viruses, 2016, 8, 79.	3.3	17
32	Identification of novel X-linked gain-of-function RPGR-ORF15 mutation in Italian family with retinitis pigmentosa and pathologic myopia. Scientific Reports, 2016, 6, 39179.	3.3	15
33	Eliciting the Functional Taxonomy from protein annotations and taxa. Scientific Reports, 2016, 6, 31971.	3.3	14
34	An expanded evaluation of protein function prediction methods shows an improvement in accuracy. Genome Biology, 2016, 17, 184.	8.8	308
35	Glutathione Peroxidase 4., 2016, , 223-234.		5
36	Third generation sequencing technologies applied to diagnostic microbiology: benefits and challenges in applications and data analysis. Expert Review of Molecular Diagnostics, 2016, 16, 1011-1023.	3.1	33

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37	Enhancing protein function prediction with taxonomic constraints – The Argot2.5 web server. Methods, 2016, 93, 15-23.	3.8	54
38	Peroxiredoxin 6 from the Antarctic emerald rockcod: molecular characterization of its response to warming. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2016, 186, 59-71.	1.5	41
39	Full Genome Sequence-Based Comparative Study of Wild-Type and Vaccine Strains of Infectious Laryngotracheitis Virus from Italy. PLoS ONE, 2016, 11, e0149529.	2.5	20
40	Glutathione peroxidase 8 is transcriptionally regulated by HIFÎ $\pm$ and modulates growth factor signaling in HeLa cells. Free Radical Biology and Medicine, 2015, 81, 58-68.	2.9	28
41	Selenocysteine oxidation in glutathione peroxidase catalysis: an MS-supported quantum mechanics study. Free Radical Biology and Medicine, 2015, 87, 1-14.	2.9	100
42	Understanding mammalian glutathione peroxidase 7 in the light of its homologs. Free Radical Biology and Medicine, 2015, 83, 352-360.	2.9	35
43	Phylogenetic characterization of Central/Southern European lineage 2 West Nile virus: analysis of human outbreaks in Italy and Greece, 2013–2014. Clinical Microbiology and Infection, 2015, 21, 1122.e1-1122.e10.	6.0	49
44	Quantitative label-free redox proteomics of reversible cysteine oxidation in red blood cell membranes. Free Radical Biology and Medicine, 2014, 71, 90-98.	2.9	15
45	Reducing bias in RNA sequencing data: a novel approach to compute counts. BMC Bioinformatics, 2014, 15, S7.	2.6	51
46	keeSeek: searching distant non-existing words in genomes for PCR-based applications. Bioinformatics, 2014, 30, 2662-2664.	4.1	6
47	Toward More Transparent and Reproducible Omics Studies Through a Common Metadata Checklist and Data Publications. OMICS A Journal of Integrative Biology, 2014, 18, 10-14.	2.0	54
48	Organochalcogen peroxidase mimetics as potential drugs: a long story of a promise still unfulfilled. Free Radical Biology and Medicine, 2014, 66, 65-74.	2.9	115
49	Next-generation sequencing technologies in diagnostic virology. Journal of Clinical Virology, 2013, 58, 346-350.	3.1	117
50	In praise of open research measures. Nature, 2013, 498, 170-170.	27.8	11
51	Protein disulfide isomerase and glutathione are alternative substrates in the one Cys catalytic cycle of glutathione peroxidase 7. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 3846-3857.	2.4	53
52	A large-scale evaluation of computational protein function prediction. Nature Methods, 2013, 10, 221-227.	19.0	789
53	Accurate human papillomavirus genotyping by 454 pyrosequencing. Clinical Microbiology and Infection, 2013, 19, E428-E434.	6.0	21
54	Genomic comparative analysis and gene function prediction in infectious diseases: application to the investigation of a meningitis outbreak. BMC Infectious Diseases, 2013, 13, 554.	2.9	18

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55	Toward More Transparent and Reproducible Omics Studies Through a Common Metadata Checklist and Data Publications. Big Data, 2013, 1, 196-201.	3.4	5
56	Whole genome sequencing and phylogenetic analysis of West Nile virus lineage $1$ and lineage $2$ from human cases of infection, Italy, August 2013. Eurosurveillance, 2013, $18$ , .	7.0	49
57	Studying Interactions by Molecular Dynamics Simulations at High Concentration. Journal of Biomedicine and Biotechnology, 2012, 2012, 1-9.	3.0	16
58	Antimicrobial Treatment and Containment Measures for an Extremely Drug-Resistant Klebsiella pneumoniae ST101 Isolate Carrying pKPN101-IT, a Novel Fully Sequenced <i>bla</i> <sub>KPC-2</sub> Plasmid. Journal of Clinical Microbiology, 2012, 50, 3768-3772.	3.9	39
59	Novel West Nile virus lineage 1a full genome sequences from human cases of infection in north-eastern Italy, 2011. Clinical Microbiology and Infection, 2012, 18, E541-E544.	6.0	27
60	Comparative analysis of algorithms for whole-genome assembly of pyrosequencing data. Briefings in Bioinformatics, 2012, 13, 269-280.	6.5	23
61	Argot2: a large scale function prediction tool relying on semantic similarity of weighted Gene Ontology terms. BMC Bioinformatics, 2012, 13, S14.	2.6	137
62	A strategy to reduce technical variability and bias in RNA sequencing data. EMBnet Journal, 2012, 18, 65.	0.6	2
63	New endemic West Nile virus lineage 1a in northern Italy, July 2012. Eurosurveillance, 2012, 17, .	7.0	25
64	Clinical and virological findings in the ongoing outbreak of West Nile virus Livenza strain in northern Italy, July to September 2012. Eurosurveillance, 2012, 17, .	7.0	22
65	Clinical and virological findings in the ongoing outbreak of West Nile virus Livenza strain in northern Italy, July to September 2012. Eurosurveillance, 2012, 17, 20260.	7.0	14
66	A Comparison of Thiol Peroxidase Mechanisms. Antioxidants and Redox Signaling, 2011, 15, 763-780.	5.4	190
67	Applications of Next-Generation Sequencing Technologies to Diagnostic Virology. International Journal of Molecular Sciences, 2011, 12, 7861-7884.	4.1	241
68	Human papillomavirus genotyping by 454 next generation sequencing technology. Journal of Clinical Virology, 2011, 52, 93-97.	3.1	67
69	The genome of the domesticated apple (Malus × domestica Borkh.). Nature Genetics, 2010, 42, 833-839.	21.4	1,891
70	Draft Genome Sequences of Two Neisseria meningitidis Serogroup C Clinical Isolates. Journal of Bacteriology, 2010, 192, 5270-5271.	2.2	2
71	Identification by MS/MS of Disulfides Produced by a Functional Redox Transition. Methods in Enzymology, 2010, 473, 217-225.	1.0	7
72	OC.03.1 ANALYSIS OF MICRORNA EXPRESSION PROFILES IN CHRONIC HEPATITIS AND DEVELOPMENT OF BIOINFORMATIC METHODS FOR PREDICTION OF MICRORNA TARGETS. Digestive and Liver Disease, 2010, 42, S75.	0.9	0

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73	Matching up Phosphosites to Kinases: A Survey of Available Predictive Programs. Current Bioinformatics, 2010, 5, 141-152.	1.5	4
74	Human cytomegalovirus productively infects adrenocortical cells and induces an early cortisol response. Journal of Cellular Physiology, 2009, 221, 629-641.	4.1	14
75	Transcriptome analysis of <i>Medicago truncatula</i> leaf senescence: similarities and differences in metabolic and transcriptional regulations as compared with <i>Arabidopsis</i> , nodule senescence and nitric oxide signalling. New Phytologist, 2009, 181, 563-575.	7.3	52
76	Catalytic mechanisms and specificities of glutathione peroxidases: Variations of a basic scheme. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 1486-1500.	2.4	301
77	Rapid Annotation of Anonymous Sequences from Genome Projects Using Semantic Similarities and a Weighting Scheme in Gene Ontology. PLoS ONE, 2009, 4, e4619.	2.5	33
78	Genome sequence analysis of the first human West Nile virus isolated in Italy in 2009. Eurosurveillance, 2009, 14, .	7.0	28
79	Differential liquid phase proteomic analysis of the effect of selenium supplementation in LNCaP cells. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 865, 63-73.	2.3	5
80	MPA: A multiple peak alignment algorithm to perform multiple comparisons of liquidâ€phase proteomic profiles. Proteomics, 2008, 8, 250-253.	2.2	8
81	Comparative analysis of [FeFe] hydrogenase from Thermotogales indicates the molecular basis of resistance to oxygen inactivation. International Journal of Hydrogen Energy, 2008, 33, 570-578.	7.1	16
82	Evolutionary and Structural Insights Into the Multifaceted Glutathione Peroxidase (Gpx) Superfamily. Antioxidants and Redox Signaling, 2008, 10, 1501-1514.	5 <b>.</b> 4	205
83	The Catalytic Site of Glutathione Peroxidases. Antioxidants and Redox Signaling, 2008, 10, 1515-1526.	<b>5.</b> 4	151
84	Characterization of a novel complex BRAF mutation in a follicular variant papillary thyroid carcinoma European Journal of Endocrinology, 2008, 159, 77-80.	3.7	21
85	Mass Spectrometry Data Analysis in the Proteomics Era. Current Bioinformatics, 2007, 2, 63-93.	1.5	30
86	Linear motifs in the C-terminus of D. melanogaster cryptochrome. Biochemical and Biophysical Research Communications, 2007, 355, 531-537.	2.1	54
87	The Thioredoxin Specificity of Drosophila GPx: A Paradigm for a Peroxiredoxin-like Mechanism of many Glutathione Peroxidases. Journal of Molecular Biology, 2007, 365, 1033-1046.	4.2	113
88	A High Quality Draft Consensus Sequence of the Genome of a Heterozygous Grapevine Variety. PLoS ONE, 2007, 2, e1326.	2.5	945
89	Zebrafish spata2 is expressed at early developmental stages. International Journal of Developmental Biology, 2007, 51, 241-246.	0.6	7
90	Improving the quality of protein structure models by selecting from alignment alternatives. BMC Bioinformatics, 2006, 7, 364.	2.6	17

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91	Large-Scale Prediction of Protein Structure and Function from Sequence. Current Pharmaceutical Design, 2006, 12, 2067-2086.	1.9	12
92	Align: a C++ Class Library and Web Server for Rapid Sequence Alignment Prototyping. Current Drug Discovery Technologies, 2006, 3, 167-173.	1.2	1
93	Functional Interaction of Phospholipid Hydroperoxide Glutathione Peroxidase with Sperm Mitochondrion-associated Cysteine-rich Protein Discloses the Adjacent Cysteine Motif as a New Substrate of the Selenoperoxidase. Journal of Biological Chemistry, 2005, 280, 38395-38402.	3.4	81
94	The SSEA server for protein secondary structure alignment. Bioinformatics, 2005, 21, 393-395.	4.1	35
95	Primary structure of the nuclear forms of phospholipid hydroperoxide glutathione peroxidase (PHGPx) in rat spermatozoa. FEBS Letters, 2005, 579, 667-670.	2.8	20
96	Pattern recognition in gene expression profiling using DNA array: a comparative study of different statistical methods applied to cancer classification. Human Molecular Genetics, 2003, 12, 823-836.	2.9	51
97	TRAIT (TRAnscript Integrated Table): a knowledgebase of human skeletal muscle transcripts. Bioinformatics, 2003, 19, 661-662.	4.1	4
98	Simplifying amino acid alphabets by means of a branch and bound algorithm and substitution matrices. Bioinformatics, 2002, 18, 1102-1108.	4.1	35
99	A two-step strategy for constructing specifically self-subtracted cDNA libraries. Nucleic Acids Research, 2002, 30, 38e-38.	14.5	13
100	Development and production of an oligonucleotide MuscleChip: use for validation of ambiguous ESTs. BMC Bioinformatics, 2002, 3, 33.	2.6	8
101	Characterization of 16 novel human genes showing high similarity to yeast sequences. Yeast, 2001, 18, 69-80.	1.7	25
102	Characterization of 16 novel human genes showing high similarity to yeast sequences. Yeast, 2001, 18, 69-80.	1.7	1
103	Sequence and analysis of chromosome 3 of the plant Arabidopsis thaliana. Nature, 2000, 408, 820-823.	27.8	188
104	A Comprehensive, High-Resolution Genomic Transcript Map of Human Skeletal Muscle. Genome Research, 1998, 8, 817-825.	5.5	69
105	Telethonin, a novel sarcomeric protein of heart and skeletal muscle. FEBS Letters, 1997, 415, 163-168.	2.8	171
106	Semi-Multiplex PCR Technique for Screening of Abundant Transcripts During Systematic Sequencing of cDNA Libraries. BioTechniques, 1996, 21, 644-649.	1.8	7
107	Identification of 4370 expressed sequence tags from a 3'-end-specific cDNA library of human skeletal muscle by DNA sequencing and filter hybridization Genome Research, 1996, 6, 35-42.	5.5	52